

1 Curriculum Vitae with Scientific Development of Gerhard-Wilhelm Weber

1.1 Personal Data

Name, first name: Weber, Prof. Dr. rer. nat. habil. Gerhard-Wilhelm

Address: Faculty of Engineering Management,
Chair of Marketing and Economic Engineering,
Poznan University of Technology, Poznan, Poland

Further Affiliations: Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey (Affiliated Faculty Member);
Faculty of Economics, Business and Law, University of Siegen, Germany (Permanent Guest Professor);
School of Science, Information Technology and Engineering, Federation University, Ballarat, Australia (Adjunct Professor),
Center for Research & Development in Mathematics and Applications (CIDMA), Department of Mathematics, University of Aveiro, Portugal (Collaborator);
University of Technology Malaysia (Universiti Teknologi Malaysia, UTM), Faculty of Science, Skudai, Malaysia (Researcher);
University of North Sumatra (University of Sumatera Utara, USU), Medan, Indonesia (Representative - Advisor);
Bioinformatics Program at Informatics Institute of METU (Affiliated Faculty);
Department of Geodetic and Geographic Information Technologies (GGIT), METU, Ankara, Turkey (Member);
Department of Statistics, METU, Ankara, Turkey (Affiliated Faculty);
KTO Karatay University, Lean & Green SCM Lab, Konya, Turkey, Co-director;
Department of Industrial and Systems Engineering, College of Engineering, Istinye University, Istanbul, Turkey, Adjunct Professor;
Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran (scientific Adviser);
Vidyasagar University, Midnapore, India, Department of Ap-

plied Mathematics With Oceanology and Computer Programming (Professor - Researcher);
Georgian International Academy of Sciences (Honorable Faculty Member).

Street / Zip code / town: ul. Strzelecka 11, 60-965 Poznan, Poland

E-Mail: gerhard.weber@put.poznan.pl,
gerhard-wilhelm.weber@put.poznan.pl

Birthday / place: October 20, 1960, in Bad Berleburg (Westphalia, Germany)

Family state: unmarried

Nationality: German

1.2 Educational Data

School education:

1966-1970 Visit of Elementary School Schüller-Wemlighausen

1970-1976 Visit of *Junior High School* (Realschule) Bad Berleburg
Degree: Mittlere Reife (junior high school diploma)

1976-1979 Visit of Johannes-Althusius Secondary School Bad Berleburg
Degree: Abitur (final examination)

Studies:

1979-1980 Studies of economics and business administration at University of Siegen, Germany

1980-1986 Studies of mathematics and (second subject) economics and business administration at RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen, Germany)

Degree: diploma (mathematics)

Title of diploma thesis: *Optimale Kontrolle gewöhnlicher Differentialgleichungen mit periodischen Randwertproblemen – Methoden der konvexen Analysis und des Abbildungsgrades*

Supervisor: Prof. Dr. G. Hetzer

Promotion:

1988-1992 Further studies and research in various mathematical fields, in particular, analysis, topology, nonlinear optimization and operations research at Chair C for Mathematics of RWTH Aachen
Degree: promotion (mathematics), Dr. rer. nat.

Title of doctoral thesis: *Charakterisierung struktureller Stabilität in der nichtlinearen Optimierung*

Referees: Prof. Dr. H. Th. Jongen, Prof. Dr. J. Reinermann (both from RWTH Aachen), Prof. Dr. J. Guddat (Humboldt University Berlin)

Habilitation:

1993-1999 Extension of research into the theories of optimal control and discrete mathematics at Department of Mathematics at Darmstadt University of Technology (TH Darmstadt; since 1997: TU Darmstadt), Germany
Title of habilitation thesis :
Generalized Semi-Infinite Optimization and Related Topics
Referees : Prof. Dr. W. Krabs, Prof. Dr. P. Spellucci (both from TU Darmstadt), Prof. Dr. D. Pallaschke (University of Karlsruhe) and Prof. Dr. F. Twilt (University Twente in Enschede, the Netherlands)
Habilitation lecture¹ at December 10, 1999:
Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem
Degrees : habilitation (mathematics), Dr. rer. nat. habil. (December 10, 1999),
Privatdozent (April 14, 2000)
Inaugural lecture at April 28, 2000:
Moderne algebraische und numerische Methoden in der statistischen Versuchsplanung

1.3 Services

1986-1987 Civil service at Medical Institutions of RWTH Aachen (clinicum) in health care
for years Free activities in youth and adults supervision (in Christian communities and by own engagement)

1.4 Professional Activities

1988-1992 Scientific coworker at Chair C for Mathematics of RWTH Aachen;
chair held by: Prof. Dr. H. Th. Jongen
1993 Referent in management of YMCA- (*Young Men Christian Association*-) headquarter of Germany (Kassel)
1993-1995 Scientific coworker at Department of Mathematics at Darmstadt University of Technology,
Member of Working Group 10 (Approximation and Con-

¹ **Proposal of three topics for the habilitation lecture :**

1. *Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem*
2. *Statistische Versuchsplanung: Algorithmen für optimale Designs und Anwendungen in der multiplen polynomialen Regression*
3. *Reelle Rechenmodelle anhand des Konzepts von Blum, Shub und Smale*

trol Theory);

head of Working Group 10: Prof. Dr. W. Krabs

1995-2000

Scientific assistant at Department of Mathematics at Darmstadt University of Technology;

2000-2002: head of Working Group 10 (now: Nonlinear Analysis – Dynamical Systems and Control): Prof. Dr. G. Leugering

winter semester 2000-01 Chair by Proxy: Substitution of a Full Professorship in Mathematical Institute of University of Cologne (successor Professor Landers) and member of Center of Applied Informatics Cologne
(October 1, 2000 – March 31, 2001)

summer semester 2001 –

winter semester 2001-02 Chair by Proxy: Substitution of a Full Professorship in Faculty of Mathematics at Chemnitz University of Technology (successor Professor Tröltzsch)
(April 1, 2001 – February 28, 2002)

March 1, 2002 – February 28, 2003 Scientific coworker (docent) at ZAIK (Center of Applied Informatics Cologne) and CUBIC (Cologne University Bioinformatics Center), within research project „Bioinformatik 2001 plus – Molekulare Netzwerke in Organismen – Grundlagen und Anwendungen in Biotechnologie, Pharmazie und Medizin“

December 30, 2002 – September 29, 2017 Full Professor at Institute of Applied Mathematics Middle East Technical University (METU) Ankara, Turkey (begin of teaching: March 1, 2003)²
At IAM of METU, I am one of the leaders of the following research groups:

- *Research Group on Computational Biology and Medicine,*
 - *Research Group on Inverse Problem,*
 - *Research Group on Optimization;*
- furthermore, I am collaborating in
- *Research Group on Risk Management / Financial Mathematics* and
 - *Research Group on Hybrid Systems;*

since October 1, 2017 University Professor at Chair of Marketing and Economic Engineering, Faculty of Engineering Management, Poznan University of Technology (PUT), Poznan, Poland;

² call on a professorship at German University in Cairo, Egypt (May 27, 2003); call on associate professorship at University of Ballarat, Australia (April 2009)

- August 20, 2007 — March 31, 2012** *Assistant to the Director* of IAM, METU.
- since 2005** *Representative of German OR Society in Turkey,*
- since April 1, 2012** *Assistant to the Director* of IAM, METU, again.
- since 2014** *Administrative Committee member* of Graduate School on Neurosciences and Neurotechnology, METU and Hacettepe University, Ankara, Turkey.
- since 2006:** External Reviewer at Nanyang Technological University, Singapore.
- since 2007:** External Reviewer of Hong Kong Research Council.
- 2013:** External Reviewer of at Faculty of Economics, University of Ljubljana, Slovenia.
- October 17, 2007** Appointment to (Permanent) *Guest Professor* at the Faculty of Economics, Business and Law at University of Siegen, Germany.
- March 31, 2008** Appointment to *Collaborator* at Center for Research on Optimization and Control (CEOC), University of Aveiro, Portugal;
- since 2010** *Collaborator* at Center for Research & Development in Mathematics and Applications (CIDMA), Department of Mathematics, University of Aveiro, Portugal.
- August 11, 2009** Appointment to *Researcher (Project Leader)* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia.
- August 2, 2011** Appointment to *Representative - Advisor* of Universitas Sumatera Utara (USU), Medan, Indonesia.
- November 1, 2011** Appointment to *Adjunct Professor* at School of Science, Information Technology and Engineering, University of Ballarat, Australia,
- June 24, 2013** Appointment as *Member in the Board* of the national group in Indonesia of EURO Working Group on Methodology of Societal Complexity.
- November 8, 2013** Appointment as *Representative of German OR Society at IFORS Developing Countries Committee.*
- August 17-18, 2015** Appointment as *Ambassador* of Department of Systems Engineering and Engineering Management (SEEM), Chinese University of Hong Kong (CUHK).
- September 24, 2015** Appointment as *Member in the new Working Committee of Pacific Optimization Research Activity Group (POP)*

in charge of liaison with Europe and Africa.

- since 2007** I have also been Member of the Biomedical Engineering Program in the Graduate School of Natural and Applied Sciences of METU (until October 2017).
- since 2010** Member of Department of Geodetic and Geographic Information Technologies, METU.
- since 2010** Affiliated Faculty at Bioinformatics Program at Informatics Institute of METU.
- since 2012:** Member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan.
- since 2013** Affiliated Faculty at Department of Statistics, METU.
- since 2013** Member of Evaluation Committee of Research Work at Periyar University, Salem, India.
- since 2013** Peer Reviewer at Shota Rustaveli National Science Foundation (SRNSF), Georgia.
- since 2013** External Reviewer at Faculty of Economics, University of Ljubljana, Slovenia.
- since 2013** Assessor at Australian Research Council (ARC).
- since 2016** Reviewer for VQR 2911-2014 by the National Agency on the Evaluation of University and Research Systems in Italy.
- since 2016** Reviewer for National Science Center (Narodowe Centrum Nauki - NCN), Poland.
- since 2016** Reviewer for Luxembourg National Research Fund (FNR) (OPEN).
- since 2017** Co-director of KTO Karatay University, Lean & Green SCM Lab, Konya, Turkey.
- since 2018** Scientific Adviser of Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran.
- since 2018** Researcher - Professor at Vidyasagar University, Midnapore, India, Department of Applied Mathematics With Oceanology and Computer Programming.
- since 2019** Honorable Faculty Member of Georgian International Academy of Sciences.
- since 2019** Adjunct Professor at Department of Industrial and Systems Engineering, College of Engineering, Istinye University, Istanbul, Turkey.

- EURO (Association of European Operational Research Societies),
- DHV (Deutscher Hochschulverband, Germany),
- DMV (Deutsche Mathematiker-Vereinigung),
- EMS (European Mathematical Society),
- GOR (Gesellschaft für Operations Research, Germany),
- ISCP (International Society for Computational Biology),
- POP (Pacific Optimization Research v Activity Group),
- The OR Society (Operational Research Soc. of the UK),
- ORSIS (Operational Research Society of Israel),
- ROADEF (Operational Research Society of France),
- CSOV (Operational Research Society of Czech Republic),
- SEIO (Society of Statistics and Operational Research of Spain),
- FORS (Finnish Operations Research Society),
- AIRO (Italian Operations Research Society),
- Management Science Society of Ireland,
- APDIO (Portugese Operations Research Society),
- SSI-SOR (Slovenian Operations Research Society INFORMATIKA),
- RuORS (Russian Operational Research Society),
- INFORMS Optimization Society (The Institute for Operations Research and The Management Sciences),
- SIAM (Society for Industrial and Applied Mathematics),
- WGGC (Working Group on Generalized Convexity),
- Alumni at Darmstadt University of Technology,
- AMaMeF (Advanced Mathematical Methods for Finance), A Scientific Programme of the European Science Foundation,
- MCDM (International Society on Multiple Criteria Decision Making),
- EURO Working Group “Methodology for Complex Societal Problems” (formerly), from 2017 onwards: International Climate Complexity Institute ICCI & IWPI,

- EURO Working Group “Financial Modelling”,
- EURO Working Group on “Ethics and OR”,
- EURO Working Group on “Retail Operations”,
- EURO Working Group on “Sustainable Supply Chains”,
- EURO Working Group on Data Science meets Optimization (EWG DSO),
- The Indonesia Research Society on Methodology of Societal Complexity,
- Ernst-Schröder-Center for Conceptual Knowledge Processing,

and (from July 2006 on):

- EURO WG ORD (EURO Working Group OR for Development; cofounder),
- EURO WG CBBM (EURO Working Group OR on Computational Biology, Bioinformatics and Medicine; cofounder).

At July 4, 2003, I became *Vice Coordinator* of *EUROPT*. At July 1, 2006, I became *Chair* of *EUROPT*; since May 22, 2008, I am *Past Chair* of *EUROPT*. Since early July 2006 I am *Past Chair* of EURO WG CBBM and member of *Advisory Board* of EURO WG ORD. Since June 2008, I am *Honorary Coordinator* of EURO Working Group Methodology for Complex Societal Problems, and from July 2008 on, I am *Vice Chair* of EURO WG ORD. In August 2012, I became a member of the Managing Board of EURO WG on “Ethics and OR”. In September 2015, I was appointed member in the Working Committee of Pacific Optimization Research Activity Group (POP) in charge of liaison with Europe and Africa.

Since April 2001, I have been *contact person* between *EUROPT* (from Europe) and *POP* (from Pacific region).

Co- or Associate Editor of

Journal of Computational Technologies (2000-2007);
Organizacija (Organization - Journal of Management, Information Systems and Human Resources) (since beginning of 2008);
Global Journal of Technology and Optimization (since February 2009);
Optimization (from end of 2010 on);
Quantum Biosystems (since 2010);
International Journal of Optimization and Control: Theories &

Applications (IJOCTA) (from end of 2010 on);
International Journal of Energy Optimization and Engineering (IJEEO) (since 2010);
International Journal of Lean Thinking (since 2010);
Journal System Research and Information Technologies (since 2010);
Intellectual Systems and Aviation Problems (since 2011);
Interdisciplinary Medicine (since 2011);
Central European Journal of Operations Research (CEJOR) (since 2011);
Caspian Journal of Mathematical Sciences (CJMS) (since 2011; Advisory Board);
Journal of Diabetes and Metabolic Disorders (since 2012);
OA Diabetes (an Open Access Journal) (since 2012; Advisory Board)
Journal of Applied & Computational Mathematics (since 2013),
Eastern European Journal of Enterprise Technologies (since 2013),
International Journal of Diabetology & Vascular Disease Research (IJDVR) (since 2013),
International Journal of Food Science, Nutrition and Dietetics (IJFS) (since 2013),
International Journal of Supply and Operations Management (IJSOM) (since 2013),
International Journal of Computing and Optimization (IJCO) (since May 2015),
International Operational Research: An International Journal (ORIJ) (since May/June 2015),
Mathematical Problems in Engineering (2011 - January 18, 2015),
member in the Advisory Board of *SDU journal of Natural and Applied Science* (since October 2015),
Journal of Business Systems Management Research (BSMR) (in establishment; since January 2016),
member in the Editorial Advisory Board of *Journal of Engineering Sciences and Design*, by Engineering Faculty of Süleyman Demirel University, Isparta, Turkey (since August-September 2016), member in the Advisory Board of the *Harvard Deusto Business Research journal* (since 2016),
Member of Editorial Board of *Journal of Numerical Algebra, Control and Optimization (NACO)* (from January 2017 onward),
Member of Editorial Board of *Journal of Journal of Industrial and Management Optimization (JIMO)* (from January 2017 onward),
Member of Editorial Board of Süleyman Demirel University Fa-

culty of Arts and Science (from January/February 2017 onward),
Member of Editorial Board of Journal of Geodesy and Geoinformation (from February 2017 onward),
Member of Editorial Board of Independent Journal of Management & Production (IJM&P) (from February 2017 onward),
Member of Advisory Board and Editorial Board of Journal of Quantitative Methods (JQM) (from June 2017 onward),
Member of Editorial Board of European Journal of Renewable Energy (from Spring 2018 onward),
Editor of International Journal of Applied Optimization Studies (from July 2018 onward),
an Editor of Journal of Multidisciplinary Modeling and Optimization (from August 2018 onward),
Member of Editorial Board of Journal of Dynamics and Games (JDG) (from December 2018 onward),
Co-editor of International Journal of Emerging Technologies, Innovation Management and Entrepreneurship (IJETIME) (from December 2018 onward),
Editor of International journal of industrial engineering and operational research (IJIEOR) (from December 2018 onward),
Member of Editorial Board of ZERO, Journal of UINSU, Medan, Indonesia (from late 2018 onward).
 Editor of the Newsletter *On the "Life" in the German Operations Research Society*.
 IFORS News Correspondent *Europe*;
 IFORS New Section Editor *Conferences*.
 Member in Editorial Board of EUROPT e-Newsletter (until July 2013).

Guest Editor

of European Journal of Operational Research (EJOR), Discrete Applied Mathematics (DAM), Central European Journal of Operations Research (CEJOR), Optimization, Journal of Computational Technologies, Organizacija, Dynamics of Continuous, Discrete and Impulsive Systems (Series B) (DCDIS-B), Journal of Applied and Computational Mathematics (JCAM), ISI Proceedings, AIP Conference Proceedings, EURO Journal on Decision Processes, Machine Learning, The Scientific World Journal, Mathematical Problems in Engineering, Annals of Operations Research (ANOR), Optimization Methods and Software (OMS), Numerical Algebra, Control and Optimal (NACO), Cogent Mathematics, Journal of Computational Science, Turkish Journal of Mathematics, Frontiers of Engineering Management, Journal of Ambient Intelligence and Humanized Computing, International Journal of Operations Research and Information

Systems (IJORIS), Computational Intelligence (COIN), Journal of Operations Research Society of China (JORSC), and IEEE Transactions on Fuzzy Systems (IEEE TFS) . (cf. 2.2)

Awards, Honours:

- *four Calls on Professor Positions* (at PUT, Poznan, at METU, Ankara, at German University in Cairo, Egypt, and University of Ballarat, Australia); various further invitations to Professorships;
- *two Professorships by Proxy* (at Institute of Mathematics, University of Cologne, and Faculty of Mathematics, TU Chemnitz);
- appointment for becoming an *Examiner for Mathematics* in *Examination Division for Teaching in Secondary Schools of Scientific Office for Teaching at TU Darmstadt (Hessian Ministry of Culture, July 5, 2000)*;
- *Borchers-Plakette* of RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen) (1992)³;
- *Best Paper Award* for the paper and joint presentation: D. Lozuvanu, S.W. Pickl and G.-W. Weber, Optimization, monotonicity and the determination of Nash equilibria, at the conference *Computing Anticipatory Systems, CASYS'03* (Liege, Belgium, August 2003),
with the additional award: *Belgium Crystal*;
- *Best Paper Award* for the paper and joint presentation: M. Akhmet, H. Öktem, S.W. Pickl and G.-W. Weber, An anticipatory extension of Malthusian model, at the conference *Computing Anticipatory Systems, CASYS'05* (Liege, Belgium, August 2005),
with the additional award: *Belgium Crystal*;
- *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of F.B. Yilmaz *Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks*;
- *speaker* of YUUP (METU) BIYOTIP Group Bioinformatics / Computational Biology and Medicine;
- Invitation to become Guest Scientist or Visting Profes-

³ furthermore: *books (awards)* for the results of junior high school diploma (Junior High School Bad Berleburg) and Abitur diploma (final examination; Johannes-Althusius Secondary School Bad Berleburg), and several *acknowledgements* and *certificates* by students

sor from many international places (recently, e.g., from Austria, Australia, Belgium, Canada, China, Germany, Israel, Malaysia, Kazakhstan, Poland, Portugal, Japan, Taiwan, Spain and the UK).

- Insignia (medal award) by *GATA* (Turkish Medical School and Hospital of Armed Forces, Ankara, Turkey), January 2006;
- Vice Chair, Chair, Past Chair, now: Honorary Chair of EUROPT; founder and Past Chair of the EURO Working Group “OR in Computational Biology, Bioinformatics and Medicine”; founder, Vice Chair, now Honorary Chair of “OR for Development”; Honorary Chair of EURO Working Group on Societal Complexity; Honorary Member of E-CUBE (EURO Working Group on Experimental Economics (from July 2011 on) (cf. Subsection 1.6, Memberships);
- appointment as Representative of German OR Society in Turkey (from 2007 on);
- Performance Award of METU for the year 2005,
- Performance Award of METU for the year 2006,
- Performance Award of METU for the year 2007,
- Performance Award of METU for the year 2008,
- Performance Award of METU for the year 2009,
- Performance Award of METU for the year 2010,
- Performance Award of METU for the year 2011,
- Performance Award of METU for the year 2012,
- Performance Award of METU for the year 2013,
- Performance Award of METU for the year 2014,
- Performance Award of METU for the year 2015,
- Performance Award of METU for the year 2016,
- Performance Award of METU for the year 2017.
- Award by EURO (Association of European OR Societies) for contributions to scientific organization of Streams for EURO Conferences during the last 5 years (July 2007): “silver band”.
- (*Permanent*) *Guest Professor* at the Faculty of Economics, Business and Law at University of Siegen, Germany (appointment at October 17, 2007).

- *Collaborator* at Center for Research on Optimization and Control (CEOC), University of Aveiro, Portugal (2008-2010).
Collaborator at Center for Research and Development in Mathematics and Applications (CIDMA), University of Aveiro, Portugal (since 2010).
- *Researcher* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia (appointment at August 11, 2009).
- Call for *External Reviewer* at *Nanyang Technical University, Singapore* (July 2007),
- Call for *External Reviewer* at *Research Grants Council (RGC) of Hong Kong* (January 2008),
- Three appointment as *SIAM Representative* at international conferences: Joint EUROPT-OMS Conference (Prague, Czech Republic, July 4-7, 2007), Mini 20th EURO Conference (Neringa, Lithuania, May 20-23, 2008) and ECCO 2012 (Antalya, Turkey, April 26-29, 2012).
- Appointment to be *Honorary Coordinator* of *EURO Working Group Methodology for Complex Societal Problems*, June 2008.
- Appointment to be *Vice Chair* of *EURO Working Group OR for Development*, July 2008.
- Award of *EUROPT'08 Clock* at the occasion of EURO Mini Conference - Continuous Optimization and Knowledge-Based Technologies, Neringa, Lithuania, May 20-23, 2008.
- A service award at *IFORS 2008*, Sandton, South Africa, July 13-18, 2008.
- *Best Lecturer* at the Conference “3rd International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 11-24, 2008 (elected by the students).
- Various further awards at the conferences “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, 2006, 2007, 2008, 2009, 2010 and 2011.
- *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of F. Yerlikaya, *A New Contribution to Non-linear Robust Regression and Classification with MARS and Its Application to Data Mining for Quality Control in Manufacturing* (May 27, 2009).

- *Appreciation for Best Session Chair* at Global Conference for Power, Control and Optimization in Bali, Indonesia, June 1-3, 2009.
- IFORS Medaillon for service in Organization of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009 (July 4, 2009).
- Picture present for service in Organization by the Organizers of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009 (July 7, 2009).
- *C3 Research Award — Gold Star Award for Distinguished Contributions in the Area of Operations Research*, Munich, Germany, July 21, 2010.
- *EUROPT'10 Insignia* at the occasion of EURO Mini Conference - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey June 23-26, 2010.
- Appointment as *Honorary Chair of EUROPT (EURO Working Group on Continuous Optimization)*, July 2010.
- Appointment as *Advisor of EURO for EURO Conferences*, July 2010.
- *Insignia* for Achievements as an Organizer of the Symposium *Mathematical Methods from Probability, Optimization and Data Mining in Finance, Life and Human Sciences* at the occasion of 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010.
- *Best Tutor* at the Conference “5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, in the Stream *Applied Mathematics*, Kiev, Ukraine, August 3-15, 2010 (elected by the students).
- Appointment as *Honorary Chair of EURO ORD (EURO Working Group on OR for Development)*, September 2010.
- Appointment as *Faculty Advisor of SIAM Student Chapter at METU*, October 2010.
- Appreciation for participation in the Panel *What is a University?* at World Universities Congress (Canakkale, Turkey, October 20-24, 2010) by the president of Canakkale Onsekiz Mart University.
- *Award for a Best Presentation* at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinfor-

- mathematics, Izmir, Turkey, May 2-5, 2011.
- Appointment as a EURO Representative in the project to make available educational resources at IFORS website (since May 2011) for the special sector: OR for Developing Countries.
 - Appointment as Member and Chair in the project to make available resources on OR for Developing Countries at IFORS website (since July 2011).
 - Appointment as *Honorary Member of E-CUBE (EURO Working Group on Experimental Economics)* (from July 2011 on).
 - Appointment as *Representative - Advisor of University of North Sumatra*, Medan, Indonesia (from August 2011 on).
 - *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of A. Özmen, *Robust Conic Quadratic Programming Applied to Quality Improvement - A Robustification of CMARS* (June 6, 2012).
 - Appreciation / awards by the organizers and by EUROPT at the occasion of The 10th EUROPT Workshop on Advances in Continuous Optimization, Siauliai, Lithuania, July 5-7, 2012.
 - Appreciation / awards by the organizers and by EURO at the occasion of EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
 - Appreciation / awards by the organizers at the occasion of 1st International Student Congress “International in Turkey”, METU, Ankara, Turkey, March 22, 2014.
 - Call for Member of Member of Evaluation Committee of Research Work at Periyar University, Salem, India (2012).
 - Call for Member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan (2012).
 - Appreciation / certificate at the occasion of ICORD - EURO ORD Workshop, Rome, Italy, June 27-28, 2013.
 - Appointment as *Member in the Board* of the national group in Indonesia of EURO Working Group on Methodology of Societal Complexity (from June 2013 on).
 - Appointment as *External Reviewer* of at *Faculty of Economics, University of Ljubljana*, Slovenia (from 2013 on).
 - Appointment as *Assessor* with the *Australian Research Council (ARC)* (from 2013 on).

- Appreciation / award by EURO at the occasion of EURO-INFORMS XXVI 2013, Rome, Italy, July 1-4, 2013.
- Appreciation / certificate at the occasion of AACIMP-2013, Kyiv, Ukraine, August 1-17, 2013.
- Appreciation / certificate at the occasion of InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
- Performance Award of Erzurum Technical University, Turkey, on *Stochastic Dynamics and Its Optimization, in Economics and Finance, Science and Engineering*, Erzurum, Turkey, November 18, 2013.
- Appointment as *Representative of German OR Society at IFORS Developing Countries Committee* (November 2013).
- Appreciation Certificate by IFORS at the occasion of ICORD - EURO ORD Workshop, Lleida, Spain, July 11-12, 2014.
- Appreciation Certificate by IFORS at the occasion of IFORS 2014, Barcelona, Spain, July 13-18, 2014.
- Appreciation Certificate at the occasion of AACIMP-2014, Kyiv, Ukraine, August 1-15, 2014.
- Honoured Guest at 66th Anniversary of the Universal Declaration of Human Rights “Panel of Gender Inequality”, METU, Ankara, Turkey, December 6, 2014.
- METU Best PhD. Thesis Award (December 19, 2014): ODTÜ Prof. Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı — ODTÜ Yılın Tezi Ödülü, for the PhD Thesis of Fatma Yerlikaya Özkurt: *Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines*, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, supervised by me.
- Appreciations by OR Society of China and Shanghai University at the occasion of Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai University, China, May 10-12, 2015.
- Certificate of Appreciation at the occasion of EWG ORD - IFORS Workshop on OR for Development, Glasgow, UK, July 9-10, 2015.
- Interview with Radio Voice of Kyiv, interview on Smart Cities and Summer School AACIMP-2015, at the occasi-

- on of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- Certificate of Appreciation at the occasion of AACIMP-2015, Kyiv, Ukraine, August 4-18, 2015.
 - Honorary appointment as *Ambassador* of Department of Systems Engineering and Engineering Management of The Chinese University of Hong Kong (since August 2015).
 - Certificate of Appreciation and Crystal of USU at the occasion of InteriOR 2015, Medan, Indonesia, August 21-23, 2015.
 - Appreciation / certificate by Slovenian OR Society and University of Maribor at the occasion of SOR '15, The 13th International Symposium on Operations Research in Slovenia, Bled, Slovenia, September 23-25, 2015.
 - Plaque of appreciation by organizers at the occasion of IC-CESEN 2015 - 2nd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October 14-19, 2015.
 - Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey (Member until October 2017).
 - Graduate School on Neurosciences and Neurotechnology, METU and Hacettepe University, Ankara, Turkey (Affiliated Faculty, Member of Administrative Committee; until 2017);
 - Certificate and plate of appreciation by organizers at the occasion of ICIE 2015 - The 12th International Conference on Industrial Engineering, Tehran, Iran, January 25-26, 2016.
 - Serhat Özyar PhD. Thesis Award (April 2016): for the PhD Thesis of Ayse Özmen: *Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines*, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, supervised by me.
 - Certificate of Appreciation at the occasion of EWG ORD 2016 - Workshop on OR for Development, Poznan, Poland, June 30 - July 1, 2016.
 - Appreciation at the occasion of EURO 2016, Poznan, Poland, July 3-6, 2016.

- Certificate of Appreciation at the occasion of ICORD 2017 - The International Conference on OR for Development, Quebec City, Canada, July 13-14, 2017.
- Certificate of Appreciation at the occasion of IFORS 2017, Quebec City, Canada, July 17-21, 2016.
- Carpet plate of appreciation by organizers at the occasion of ICCESEN 2016 - 3rd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October 19-24, 2016.
- Shawl of appreciation, plate and certificate by organizers at the occasion of InteriOR 2017, Medan, Indonesia, August 2017.
- Certificate of appreciation by organizers at the occasion of Vising Professor, “International Public Lecture”, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.
- Certificate of appreciation by organizers at the occasion of EURO 2019 Dublin.
- About 120 invitations to *invited/plenary lectures* at international conferences and workshops, several (e.g., semi-plenary) invitations; about 10 times to *Organization or Steering Committees, Advisor or Advisory Boards*, about 150 invitations to *Scientific/Program Committees*, among of them to EURO XXI, Reykjavik, Iceland, 2006, where I was Plenary Chair, INFORMS International 2007, Puerto Rico, 2007, EURO XXIII in Bonn, Germany, 2009, EURO XXIV, Lisbon, Portugal, 2010, IFORS 2011 in Melbourne, Australia, 2011, EURO XXV, Vilnius, Lithuania, 2012, EURO-INFORMS 2013 in Rome, Italy, IFORS 2014, Barcelona, Spain, EURO 2015, Glasgow, UK, EURO 2016, Poznan, Poland, IFORS 2017, Quebec, Canada, and EURO 2018, Valencia, Spain, to EURO XXII, Prague, Czech Republic, 2007, and EURO XXIII, Bonn, Germany, where I was in OC, to many workshops (e.g., of EUROPT, EURO CBBM, EURO ORD), EURO Mini Conferences, EURO Summer Institutes, IFIP Conferences, summerschools in different parts of the world, etc. (cf. also www.iam.metu.edu.tr/EUROPT/, Scientific events, and 6.).
- Various Grants of German Science Foundation (Deutsche Forschungsgemeinschaft, DFG), European Office of Aerospace Research and Development (EOARD), The Associa-

tion of European OR Societies (EURO), European Science Foundation (ESF), “Applied Mathematical Methods for Finance” (AMaMeF; a Scientific Programme of ESF) and and The Scientific and Technological Research Council of Turkey (TÜBİTAK).

2 Publication List

2.1 Monographies and Books

- G.-W. Weber, *Charakterisierung struktureller Stabilität in der nichtlinearen Optimierung*, Aachener Beiträge zur Mathematik 5, eds: H.H. Bock, H.Th. Jongen and W. Plesken, Augustinus publishing house (now: Mainz publishing house) Aachen, 1992.
- G.-W. Weber, *Generalized Semi-Infinite Optimization and Related Topics*, Heldermann publishing house, Research and Exposition in Mathematics 29, Lemgo, eds.: K.H. Hofmann and R. Wille, 2003.
- P. Vasant, G.-W. Weber and V.N. Dieu, *Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics* (pp. 1-684). Hershey, PA: IGI Global. (2016); doi:10.4018/978-1-4666-9644-0.
- R. Fonseca, G.-W. Weber and J. Telhada, *Computational Management Science - State of the Art 2014*, Springer's Lecture Notes in Economics and Mathematical Systems (pp. 1-245), ISBN 978-3-319-20430-7, DOI: 10.1007/978-3-319-20430-7 (at the occasion of 11th International Conference on Computational Management Science, May 29-31 2014, Lisbon, Portugal).
- P. Vasant, S.Z. Alparslan-Gök and G.-W. Weber, *Handbook of Research on Emergent Applications of Optimization Algorithms, Volume 1*, IGI Global, Hershey PA, USA, October 2017, 16 chapters, ISBN13: 9781522529903, ISBN10: 152252990X, EISBN13: 9781522529910, DOI: 10.4018/978-1-5225-2990-3.
- P. Vasant, S.Z. Alparslan-Gök and G.-W. Weber, *Handbook of Research on Emergent Applications of Optimization Algorithms, Volume 2*, IGI Global, Hershey PA, USA, October 2017, 17 chapters, ISBN13: 9781522529903, ISBN10: 152252990X, EISBN13: 9781522529910, DOI: 10.4018/978-1-5225-2990-3.
- D. DeTombe, G.-W. Weber and S. Kuter, *Societal Complexity, Data Mining and Gaming — State-of-the-Art 2017*, Based on conference of IFOR2017, Operational Research ICCI & IWPI / EUROPT / Ethics and OR, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, ISBN /EAN 978-90-77171-54-7, 142 pages, December 2017.
- T. Paksoy, G.-W. Weber and S. Huber, *Lean and Green Supply Chain Management - Optimization Models and Algorithms*, International Publishing, International Series in Operations Research & Management Science 273 (2019); 230 pages; DOI 10.1007/978-3-319-97511-5; Print ISBN: 978-3-319-97510-8; Electronic ISBN: 978-3-319-97511-5.
- P. Vasant, I. Zelinka and G.-W. Weber, *Intelligent Computing & Optimization*, at the occasion of ICO'2018, October 4-5, 2018, Pattaya, Thailand,

in: *Advances in Intelligent Systems and Computing*, book series of Springer; 49 chapters / 59 papers, 570 pages; eBook ISBN 978-3-030-00979-3, DOI 10.1007/978-3-030-00979-3.

- D. DeTombe and G.-W. Weber, *Book of Abstracts and Papers - OR and Ethics and Societal Complexity - 29th EURO Conference Operational Research - Valencia 2018*, Volume 35, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-55-4, Version 001, 37 pages, December 2018. Nur 916.
- G.-W. Weber, Member in the Editorial Advisory Board of the book *Advanced Agro-Engineering Technologies for Rural Business Development*, V. Kharchenko and P. Vasant, eds.; IGI Global, Hershey PA, March 2019.

The books by P. Vasant, I. Zelinka and G.-W. Weber, ICO'2019 Conference Proceedings, Springer book series *Advances in Intelligent Systems and Computing*, and P. Vasant, G.-W. Weber, W. Punurai, and I. Litvinchev, *Research Advancements in Smart Technology, Optimization, and Renewable Energy*, are in preparation.

2.2 Edition of Journals, Special Issues, and Proceedings

- Member of Editorial Board of the journal *Optimization*: from end of 2010 on.
- Member of Editorial Board of *Journal of Computational Technologies*: 2000-2007.
- Member of Editorial Board of *Organizacija (Organization - Journal of Management, Information Systems and Human Resources)*: since 2008.
- Member of Editorial Board of *Global Journal of Technology and Optimization*: since 2009.
- Member of Editorial Board of journal *Quantum Biosystems*: since 2010.
- An Editor-in-Chief of *International Journal of Optimization and Control: Theories & Applications (IJOCTA)*: from end of 2010 on.
- An Editor-in-Chief of *International Journal of Energy Optimization and Engineering (IJEEO)*: since 2010.
- Co-Editor of *International Journal of Lean Thinking*: since 2010.
- Member of Editorial Board of *Journal System Research and Information Technologies (National Technical University of Ukraine "Kyiv Polytechnic Institute")*: since 2010.
- Member of Organizing Committee of the magazine *Intellectual Systems and Aviation Problems (National Academy of Aviation of Azerbaijan, Baku)*: since 2011.
- Member of Editorial Board of journal *Interdisciplinary Medicine*: since 2011.
- Member of Editorial Board of *Central European Journal of Operations Research (CEJOR)*: since 2011.
- Member of Advisory Board of *Caspian Journal of Mathematical Sciences*

- (CJMS): since 2011.
- Member of Editorial Board of Journal of Diabetes and Metabolic Disorders: since 2012.
 - Member of Advisory Board of OA Diabetes (an Open Access Journal): since 2012.
 - Member of Editorial Board of Journal of Applied & Computational Mathematics: since 2013.
 - Member of Editorial Board of International Journal of Supply and Operations Management (IJSOM): since 2013.
 - Member of Editorial Board of Eastern European Journal of Enterprise Technologies: since 2013.
 - Member of Editorial Board of International Journal of Diabetology & Vascular Disease Research (IJDVR): since 2013.
 - Member of Editorial Board of International Journal of Food Science, Nutrition and Dietetics (IJFS): since 2013.
 - Member of Editorial Board of International Journal of Computing and Optimization (IJCO): since May 2015.
 - Member of Editorial Board of International Operational Research: An International Journal (ORIJ): since May/June 2015.
 - Member of Advisory Board of Süleyman Demirel University journal of Natural and Applied Science: since October 2015.
 - Member of Editorial Board of journal Mathematical Problems in Engineering: 2011 - January 18, 2015.
 - Member in the Editorial Advisory Board of Journal of Engineering Sciences and Design (Engineering Faculty of Süleyman Demirel University, Isparta, Turkey) - since August-September 2016.
 - Member of Editorial Board and Managing Editor of Journal of Business Systems Management Research (BSMR): in establishment; since January 2016.
 - Member in the Advisory Board of the *Harvard Deusto Business Research journal* (since 2016).
 - Member of Editorial Board of Numerical Algebra, Control and Optimization (NACO): from January 2017 onward.
 - Member of Editorial Board of Journal of Journal of Industrial and Management Optimization (JIMO): from January 2017 onward.
 - Member of Editorial Board of Süleyman Demirel University Faculty of Arts and Science: from January/February 2017 onward.
 - Member of Editorial Board of Journal of Geodesy and Geoinformation: from February 2017 onward.

- Member of Editorial Board of Independent Journal of Management & Production (IJM&P): from February 2017 onward.
- Member of Advisory Board and Editorial Board of Journal of Quantitative Methods (JQM): from June 2017 onward.
- Co-editor of International Journal of Emerging Technologies, Innovation Management and Entrepreneurship (IJETIME): upcoming.
- Member of Editorial Board of European Journal of Renewable Energy: from Spring 2018 onward.
- Editor of International Journal of Applied Optimization Studies: from July 2018 onward.
- Member of Editorial Board of ZERO, Journal of UINSU, Medan, Indonesia: from late 2018 onward.
- Co-editor of Journal of Multidisciplinary Modeling and Optimization: from August 2018 onward.
- Member of Editorial Board of Journal of Dynamics and Games (JDG): from December 2018 onward).
- Editor of International journal of industrial engineering and operational research (IJIEOR): from December 2018 onward.
- S. Pickl and G.-W. Weber (guest editor and coeditor, respectively), *Colloquy Optimization – Structure and Stability of Dynamical Systems*, Journal of Computational Technologies 7, Special Issue (2002).
- J. Brinkhuis, T. Illes, H. Frenk, G. Still, G. Weber and T. Terlaky (guest editors), *Smooth and Nonsmooth Optimization*, Feature Cluster in European Journal of Operational Research 157, 1 (2004).
- B. Karasözen, M. Pinar, T. Terlaky and G.-W. Weber (guest editors), *Advances in Continuous Optimization*, feature cluster in European Journal of Operational Research 169, 3 (2006).
- B. Karasözen, A. Rubinov and G.-W. Weber (guest editors), *Optimization in Data Mining*, special issue (or feature cluster) of European Journal of Operational Research 173, 3 (2006).
- M. Dür, B. Karasözen, T. Terlaky and G.-W. Weber (guest editors), *Challenges of Continuous Optimization in Theory and Applications*, special issue (or feature cluster) of European Journal of Operational Research 181, 3 (2007).
- T. Illés, M.A. Lopez, T. Terlaky, J. Vörös and G.-W. Weber (guest editors), *Continuous Optimization in the Industry*, in the feature cluster issue European Journal of Operational Research 191, 3 (2008).
- S.W. Pickl, G.-W. Weber and M. Zachariasen (guest editors), Special Issue of Central European Journal of Operations Research, on OR for Better Management of Sustainable Development at the occasion of EURO XXI 2006,

- Central European Journal of Operations Research (CEJOR) 15, 3 (September 2007).
- O. Stein, G. Still, T. Terlaky and G.-W. Weber (guest editors), *Advances in Continuous Optimization*, special issue of CEJOR (Central European Journal of Operations Research) 16, 2 (2008) at the occasion of 5th EUROPT Workshop “Advances in Continuous Optimization” (Reykjavik, Iceland, June 30 - July 1, 2006).
 - Ö. Uğur, A.D. Sezer and G.-W. Weber, *Collected Contributions of Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu* (Ankara, Turkey, April, 25-26, 2008), on the CD of the workshop.
 - L. Sakalauskas, G.-W. Weber and E.K. Zavadskas (guest editors), *ISI Proceedings of International Conference EURO Mini Conference “Continuous Optimization and Knowledge-Based Technologies” (EurOPT-2008)* (Neringa, Lithuania, May 20-23, 2008) (ISI: International Statistical Institute).
 - G.-W. Weber and D. DeTombe (editors), *Complex Societal Problems, Sustainable Living and Development, IAM, METU, Ankara, May 13-16, 2008*, Greenhill & Waterfront (and Dorien J. DeTombe), Volume 19, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK, North-America: Montreal, Canada, ISBN/EAN 978-90-77171-29-5, Version 001 (small book), Nur 916, May 2008.
 - U. Leopold-Wildburger, G.-W. Weber and M. Zachariasen (guest editors), *OR for Better Management of Sustainable Development*, special issue of European Journal of Operational Research 193, 3 (March 16, 2009) (at the occasion of EURO XXI 2006).
 - A. Dress, B. Karasözen, P.F. Stadler and G.-W. Weber (guest editors), *Networks in Computational Biology*, special issue of Discrete Applied Mathematics (DAM) 157, 10 (2009).
 - G.-W. Weber (guest editor), *Continuous Optimization in Finance*, special issue of Optimization 58, 3 (2009) 263—388.
 - D. DeTombe and G.-W. Weber (editors), *State of the Art Workshop Societal Complexity 2009 EURO XXIII Conference Bonn, Germany, Europe, July 5, 2009, 23 European Conference on Operational Research*, Volume 19, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK, North-America: Montreal, Canada, ISBN/EAN 978-90-77171-29-5, Version 001 (small book), Nur 916, June 2009.
 - X. Sun, S. Zhu, Z. Li and G.-W. Weber (guest editors), *Special Issue on Optimization and Dynamics in Finance*, of DCDIS-B, Dynamics of Continuous, Discrete and Impulsive Systems 17, 1b (Series B) 2010.
 - M. Kljajic, G.-W. Weber and H. Akar (guest editors), *Recent Advances in Systems, Decision Making, Education and other Complex Problems*, Orga-

- nizacija (Organization - Journal of Management, Information Systems and Human Resources) 43, 3 (May-June 2010) (at the occasion of EURO XXIII 2009).
- N. Barsoum, G.-W. Weber and P. Vasant (editors), *Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010*, AIP Conference Proceedings, Volume 1239 (2010), ISBN: 978-0-7354-0785-5.
 - D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstop (editors), *Book of Abstracts of State of the Art Workshop LISBON 2010 Operational Research — EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, proceedings, Volume 22, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, ISBN / EAN 978-90-77171-34-9, Version 001, 16 pages (July 2010), Nur 916.
 - P. Letmathe, A. Tuma and G.-W. Weber, *OR and Environmental Management*, Feature Sample at the Occasion of EURO 2009, CEJOR 19, 4 (December 2011) 391-438.
 - G.-W. Weber and E. Kropat, *Special Issue: 23rd European Conference on Operational Research in Bonn, July 5-8, 2009*, Optimization 60 (10-11) (October— December 2011) 1233—1398, ISSN 0233-1934.
 - C. Dincer, R. Kasimbeyli and G.-W. Weber, Special Issue: 24th Mini-EURO Conference on *Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23-26, 2010*, Optimization 61(4) (2012) 358-488.
 - E. Kropat and G.-W. Weber, *Special Issue on OR in the Financial Sector at the occasion of the 24th European Conference on Operational Research, EURO XXIV, July 11-14, 2010, Lisbon, Portugal*, feature sample, integrated into CEJOR 20, 3 (2012).
 - M. Kljajic and G.-W. Weber (guest editors), *Advances in Systems, Decision Making, Collaborative Work and Learning*, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 45, 5, (2012) special issue of at the occasion of 23rd Conference on System Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2011, in the stream Simulation Based Decision Support.
 - A. Fügenschuh and G.-W. Weber (guest editors), *Discrete-Continuous Control and Optimization Problems — Theory, Methods, and Application; on the Occasion of the EURO 2010 Conference in Lisbon, Portugal*, Optimization 61(8) (July-September 2012) special issue at the occasion of EURO 24, Lisbon, July 11-14, 2010, 901-1073.
 - D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstop (editors), *Book of Abstracts State of the Art Workshop, 26th European Conference on Operatio-*

- nal Research, Rome, 2013, EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR* Volume 27, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK; North-America: Montreal, Canada; Nur 916, 2013.
- S. Martello, G.-W. Weber and R. Kasimbeyli (guest editors), *Optimization* 62, 10 (2013) 1291-1397, *An overview of advances in combinatorial optimization and related topics*, special issue of at the occasion of ECCO XXV Conference, Antalya, Turkey, April 26-28, 2012.
 - A.D. Sezer and G.W. Weber (guest editors), *Optimization* 62, 11 (2013) 1399-1602, special issue on *Optimization Methods in Mathematical Finance*.
 - E. Akyildiz, Ö.L. Gebizlioglu, B. Karasözen, Ö. Ugur and G.W. Weber (guest editors), *Journal of Computational and Applied Mathematics (JCAM)* 259, Parts A and B (March 2014), special issue of *Journal of Applied and Computational Mathematics (JCAM) Selected Papers on Applied and Computational Mathematics - On the occasion of 10th anniversary of the foundation of Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey*, 1-978.
 - G.-W. Weber, A. Kruger, J.E. Martinez-Legaz, B. Mordukhovich and L. Sakalauskas (guest editors), *Optimization* 63, 1 (2014) 1-166, *Special Issue on Recent Advances in Continuous Optimization on the Occasion of the 25th European Conference on Operational Research (EURO XXV 2012)*.
 - M. Kljajic and G.-W. Weber, *Organizacija (Organization - Journal of Management, Information Systems and Human Resources)*, special issue *Recent Advances in Systems, Decision Making, Business Intelligence and Learning*, 47, 2 (2014) 79-127.
 - D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstp (editors), *Book of Abstracts of State of the Art Workshop Barcelona 2014. EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Volume 29. Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2014; ISBN / EAN 978-90-77171-48-6.
 - M. Bogdan, C.-A. Comes, D. Stefan and G.-W. Weber, *Special Issue on Financial Optimization, Optimization in Finance - OPTFIN 2012 Workshop*, *Optimization* 63, 12 (2014) 1781-1901.
 - A. Bagirov, K. Miettinen and G.-W. Weber, *Special Issue OR - Connecting Sciences Supported by Global Optimization related to the 25th European Conference on Operational Research (EURO XXV 2012)*, *Journal of Global Optimization (JOGO)* 60, 1 (September 2014) 1-120.
 - G.-W. Weber, J. Blazewicz, M. Rauner and M. Turkay (editors), *“Recent Advances in Computational Biology, Bioinformatics, Medicine, and Healthcare by Modern OR*, *Central European Journal of Operations Research (CEJOR)* 22, 3 (September 2014) 427-589; Special Issue at the occasion of the 25th

- European Conference on Operational Research, EURO XXV 2012, July 8-11, 2012, in Vilnius, Lithuania.
- H. Mawengkang, T. Tulusjp, S. Suwilo, M. Ramli, G.-W. Weber, G. Wäscher and E. del Rosario, Proceedings of InteriOR 2013, the 2nd International Seminar on Operational Research, Department of Mathematics, University of Northern Sumatra, Indonesia; ISBN 978-602-19937-1-2.
 - P. Vasant, G.-W. Weber, N. Barsoum and V.N. Dieu, Special Issue on Power, Control and Optimization in The Scientific World Journal: Computer Science, Scientific World Journal, Volume 2015 (2015); Article ID 964581, 2 pages; Article ID 769241, 7 pages; Article ID 836484, 12 pages; Article ID 452863, 11 pages; Article ID 391975, 7 pages; Article ID 763692,pages; 7 Article ID 678095, 10 pages; Article ID 138254, 6 pages; Article ID 462312, 14 pages; Article ID 487549, 6 pages; Article ID 724740, 9 pages; Article ID 743 470, 9 pages; Article ID 580854, 8 pages; Article ID 978167, 15 pages; Article ID 894018, 24 pages; Article ID 313164, 9 pages; Article ID 631604, 13 pages; Article ID 271087, 16 pages; Article ID 398235, 16 pages; Article ID 305 085, 6 pages; Article ID 279217, 8 pages; Article ID 535294, 13 pages; Article ID 430190, 8 pages; Article ID 352 809, 7 pages; Article ID 101529, 14 pages; Article ID 791690, 9 pages; Article ID 718348, 8 pages; Article ID 549094, 8 pages; Article ID 845307, 10 pages; Article ID 965915, 11 pages; <http://www.mediafire.com/view/5fabf92vf0rj4l>.
 - T. Tchemisova, A. Freitas, A. Plakhov and G.-W. Weber, Special Issue: Optimization in the Natural Sciences, Optimization 64, 6 (March 2015) 1363-1407.
 - P. Vasant, G.-W. Weber and V.N. Dieu, Special Issue on Classical and Hybrid Optimization Approaches and Their Applications in Engineering and Economics, of Mathematical Problems in Engineering, vol. 2015 (2015); Article ID 917093, 2 pages; Article ID 379250, 10 pages; Article ID 914108, 13 pages; Article ID 351354, 13 pages; Article ID 320130, 7 pages; Article ID 814084, 5 pages; Article ID 639787, 10 pages; Article ID 587925, 11 pages; Article ID 329753, 8 pages; Article ID 754582, 8 pages; Article ID 594345, 7 pages; Article ID 126404, 17 pages (<http://www.hindawi.com/journals/mpe/si/470798/>).
 - M. Kljajic and G.-W. Weber, Recent Advances in Simulation based decision making in business process, special issue in Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 48, 3 (2015) 143-213.
 - V. Strijov, G.-W. Weber, R. Weber and S. Özögür Akyüz, “Special issue Data Analysis and Intelligent Optimization with Applications, Machine Learning 101, 1 (October 2015) 1-435.
 - U. Reisach, DeTombe and G.-W. Weber, Special Issue: International Aspects of OR, Central European Journal of Operations Research (CEJOR) 24:4 (December 2016) 797-922 (special issue at the occasion of IFORS 2014, Barcelona, Spain).

- S.Z. Alparslan-Gök and G.-W. Weber, Special Issue on “Advances of Optimization in Science and Application at the Occasion of the International Conference on Computational and Experimental Science and Engineering (ICCE-SEN 2014), Optimization Methods and Software (OMS) 31, 3 (April 2016) 445-534.
- G.-W. Weber, Associate (guest) Editor of papers on “Applications of Interval Techniques and Other Techniques with Automatic Results Verification to Optimization in Engineering, Mathematical Problems in Engineering (state April 2016); Volume 2015 (2015): Article ID 671527, 7 pages, <http://www.hindawi.com/journals/mpe/2015/671527/>; Volume 2016 (2016): Article ID 4179638, 10 pages, <http://dx.doi.org/10.1155/2016/4179638>.
- F. Wenstop, C. Miralles and G.-W. Weber, Featured Papers on Operational Research and Ethics, EURO Journal on Decision Processes (EJDP) 4, 1-2 (June 2016) 1-84.
- H. Mawengkang and G.-W. Weber, Associate (guest) Editors of 3 papers - distributed sample issue - in Numerical Algebra, Control and Optimization (NACO) 6, 2 (June 2016) 161-219 (at the occasion of 3rd International Seminar on Operational Research (InteriOR 2015), Medan, Indonesia).
- H. Mawengkang and G.-W. Weber, Associate (reviewing) Editors of 1 paper - distributed sample issue, Cogent Mathematics (at the occasion of 3rd International Seminar on Operational Research (InteriOR 2015), Medan, Indonesia) (2016).
- D. DeTombe, C. Brugha and G.-W. Weber (eds.), Book of Abstracts “State of the Art Workshop of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 31, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-50-9.
- D. DeTombe, C. Brugha, E. Kropat, P. Kunsch and G.-W. Weber (eds.), Book of Abstracts “Ethics and OR of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 32, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-51-6.
- E. Kropat, R.A. Tikidji-Hamburyan and G.-W. Weber, Special Volume *Operations Research in Neuroscience*, Annals of Operations Research (ANOR) 258, 1 (October 2017) 1-185.
- G.-W. Weber and A. Mirzazadeh, NACO Special Issue related to 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, NACO (Numerical Algebra, Control and Optimization):
A. Ahmad and H. Davari-Ardakani, A Multistage Stochastic Programming Framework for Cardinality Constrained Portfolio Optimization (NACO 7,

- 3 (September 2017) 359-377); S. Moslemi and A. Mirzazadeh, Performance Evaluation of Four-Stage Blood Supply Chain with Feedback Variables Using NDEA Cross-Efficiency and Entropy Measures Under IER Uncertainty (NACO 7, 4 (December 2017) 379-401); M. Zahedi-Seresht, G.-R. Jahanshahloo, J. Jablonsky and S. Asghariniya, A New Monte Carlo Based Procedure for Complete Ranking Efficient Units in DEA Models (NACO 7, 4 (December 2017) 403-416); E. Babaei Tirkolaee, A. Goli, M. Bakhsi and I. Mahdavi, A Robust Multi-Trip Vehicle Routing Problem of Perishable Products with Intermediate Depots and Time Windows (NACO 7, 4 (December 2017) 417-433); F. Ahmadzadeh, K. Jederström, M. Plahn, A. Olsson and I. Foyer, An investigation of the most important factors for sustainable product development using evidential reasoning (NACO 7, 4 (December 2017) 435-455); M. Abouei Ardakan, A.K. Beheshti, S.H. Mirmohammadi and H. Davari-Ardakani, A hybrid meta-heuristic algorithm to minimize the number of tardy jobs in a dynamic two-machine flow shop problem (NACO 7, 4 (December 2017) 465-480); A. Mohsenzadeh Ledari, A. Arshadi Khamseh and M. Mohammadi, A Three Echelon Revenue Oriented Green Supply Chain Network Design; H. Khorshidian, M. Akbarpour Shirazi and S.M.T. Fatemi Ghomi, Solving the integrated truck scheduling and transportation problem by hybrid of genetic-imperialist competitive algorithm; E. Kropat and G.-W. Weber, Fuzzy Regression Analysis for Target-Environment Networks Prediction Strategies for Fuzzy Evolving Networks (NACO 8, 2 (May 2018) 135-155); M. Pervin, S.K. Roy and G.W. Weber, An integrated inventory model with variable holding cost under two levels of trade-credit policy (NACO 8, 2 (May 2018) 169-191); K.Y. Wong, A.R. Rezaei and M.M. Azami, Integrated Modeling and Optimization of Material Flow and Financial Flow of Supply Chain Network Considering Financial Ratios.
- Z. Wu, G.-W. Weber and C. Yu, NACO Special Issue related to The 10th International Conference on Optimization: Techniques and Applications (ICOTA 2016), Ulaanbaatar, Mongolia, NACO (Numerical Algebra, Control and Optimization):
 - V. Srochko, V. Antonik and E. Akseyushkina, Sufficient Optimality Conditions for Extremal Controls Based on Functional Increment Formulas (NACO 7, 2 (June 2017) 191-199);
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- S. Huber and G.W. Weber, GOR Conference Tackles Analytics and the Digital Economy, IFORS News 11, 4 (December 2017) 4-5.
- B. Gürbüz and G.-W. Weber, Deepening OR Connections with Experimental

- Science and Engineering, IFORS News 11, 4 (December 2017) 6.
- H. Mawengkang and G.-W. Weber, Report on InteriOR 2017, EUROPT Newsletter 40 (February 2018) 13-14.
 - S. Huber and G.W. Weber, Report on OR 2017, EUROPT Newsletter 40 (February 2018) 15-17.
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 - J. Ugon and G.-W. Weber, Celebrating Optimization, Optimal Control and Operational Research in the Pacific Region - Scientists Meeting in Perth, Australia, IFORS News 12, 1 (March 2018) 8-9.
 - E. Macedo and G.-W. Weber, Promoting a broad exchange on new developments in Theory of Graph Spectra, Combinatorics and Optimization, IFORS News 12, 1 (March 2018) 10-11.
 - J. Ugon and G.-W. Weber, POC 2017 - Celebrating Optimization, Optimal Control and Operational Research in the Pacific Region, OR News 62 (March 2018) 34-35.
 - E. Macedo and G.-W. Weber, Promoting a broad exchange on new developments in Theory of Graph Spectra, Combinatorics and Optimization, OR News 62 (March 2018) 36-37.
 - K. Bogurska-Matys, D. Rosinska and G.-W. Weber, International Days of Competences for the Future - OR giving a hand to Emerging Research and Application, IFORS News 12, 2 (June 2018) 24.
 - M. Baldemor, A. Emrouznejad and G.-W. Weber, DEA40: Data Envelopment Analysis Kicks Off with Its 40th Anniversary Conference, IFORS News 12, 2 (June 2018) 25.
 - M. Baldemor and G.-W. Weber, ICEST 2018 Opens Doors to OR Opportunities, OR News 63 (July 2018) 68.
 - M. Baldemor and G.-W. Weber, SEMIRATA-ICST 2018 Levels Up in Operational Research, OR News 63 (July 2018) 69.
 - A. Kabasinskas and G.-W. Weber, The 61st Meeting of EWGCFM in medieval Kaunas, Lithuania, OR News 63 (July 2018) 70-72.
 - M. Baldemor, A. Emrouznejad and G.-W. Weber, DEA40: Data Envelopment Analysis Kicks Off with Its 40th Anniversary Conference, OR News 63 (July 2018) 73-75.
 - B. Kjamili and G.-W. Weber, OR-Analytics in a Start-Up Project for Refugees, IFORS News 12, 3 (September 2018) 9-11.
 - G.-W. Weber and M. Baldemor, EURO 2018 Celebrated in Valencia - Beyond Fourth Decade of EURO Conferences on OR, IFORS News 12, 3 (September 2018) 17-19.

- M. Baldemor, B. Vitoriano and G.-W. Weber, EWG-ORD 2018 Workshop: OR Window towards Sustainable Development, IFORS News 12, 3 (September 2018) 21-22.
- B. Gürbüç and G.-W. Weber, Balikesir hosts OR meeting which exceeds the limits, IFORS News 12, 3 (September 2018) 22-23.
- T. Inkaya and G.-W. Weber, INFORMS International in Taiwan - A Better World Through OR, Analytics and AI, IFORS News 12, 3 (September 2018) 24-25.
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- M. Baldemor and G.-W. Weber, ICEST 2018 Opens Doors to OR Opportunities, IFORS News 12, 3 (September 2018) 29.
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- M. Baldemor and G.-W. Weber, Report on EURO 2018 - Beyond Fourth Decade of EURO Conferences on OR - Valencia, Spain, July 8-11, 2018, EUROPT Newsletter 41 (October 2018) 16-19.
- E. Macedo and G.-W. Weber, Report on WGSCO 2018 - Promoting a broad exchange on new developments in Theory of Graph Spectra, Combinatorics and Optimization Aveiro, Portugal, January 25-27, 2018, EUROPT Newsletter 41 (October 2018) 20-22.
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- 2018, EUROPT Newsletter 41 (October 2018) 34-36.
- K. Hankiewicz and G.-W. Weber, Report on XXXI International Seminar of Ergonomics - Human Factors in a Contemporary Organization - Poznan, Poland, May 23-25, 2018, EUROPT Newsletter 41 (October 2018) 37-39.
 - T. Inkaya and G.-W. Weber, Report on INFORMS International in Taiwan - A Better World Through OR, Analytics and AI - Taipei City, Taiwan, June 17-20, 2018, EUROPT Newsletter 41 (October 2018) 40-42.
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 - H. Calik and G.-W. Weber, Report on OR 18 Brussels — Exchange of new ideas, methods, and recent developments in OR, September 19-21, 2018, EUROPT Newsletter 41 (October 2018) 48-50.
 - M. Baldemor and G.-W. Weber, Report on PSAI 2018: Emerging Trends in Statistical Development in Operational Research - Tagbilaran City, Bohol, Philippines, September 19-21, 2018, EUROPT Newsletter 41 (October 2018) 51-53.
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 - P. Vasant and G.-W. Weber, Report on ICO 2018, EUROPT Newsletter 42 (March 2019) 10-12.
 - H. Mawengkang and G.-W. Weber, Report on ICCSAM 2018, EUROPT Newsletter 42 (March 2019) 13-15.
 - B. Gürbüz and G.-W. Weber, Report on ICCESEN 2018: A Double OR Meeting: Broadening Horizons, EUROPT Newsletter 42 (March 2019) 16-18.

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- H. Mawengkang and G.-W. Weber, ICCSAM 2018 - The 1st International Conference on Computer Sciences and Applied Mathematics at Lake Toba, OR News 65 (April 2019) 41-42.
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- H. Mawengkang, A. Ridwansyah Putra, D. Hartama and G.-W. Weber, The International Public Lecture at AMIK STMIK TUNAS BANGSA - Pematang Siantar, 11 February 2019, to appear in EUROPT Newsletter.
- Member in Editorial Board of regular e-Newsletter of EUROPT (EURO Working Group on Continuous Optimization): until 2013.
- Editor of e-Newsletter of ORST (YAD; OR Society of Turkey) *On the "Life" in the German Operations Research Society GOR - a Partner of ORST*.
- IFORS News Correspondent — Regional Correspondent for EURO (of the newsletter IFORS News).
- G.-W. Weber, Short Articles (Reports) in
 - OR-News, German Operations Research Society, Germany; 2001);
 - ORB, Optimization Research Bridge der Pacific Optimization Research Activity Group; 2001, 2003;
 - Annual Report 2000 of ZAIK, Center of Applied Computer Science, Cologne (2001);
 - Annual Reports 2003-2004, 2004-2005, 2005-2006, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010; and other reports for EUROPT, EURO Working Group on Continuous Optimization, and for EURO in 2002-2007.

2.8 Preprints and Papers Submitted for Publication

- S. Özögür, B. Karasözen and G.-W. Weber, Parameter estimation of enzymatic reactions with genetic algorithm, preprint at Institute of Applied Mathematics, METU, 2005.
- E.M.P. Quek, R. Sambanthamurthi and G.-W. Weber, Modelling of lipid biosynthesis pathways in oil palm, preprint at IAM of METU, 2005.
- I. Görgün and G.-W. Weber, Exploiting statistical learning in adaptive health informatics education, preprint at IAM of METU, 2005.
- S. Belen, E. Kropat and G.-W. Weber, Rumours within time dependent Maki-Thompson Model, Preprint No. 127, Institute of Applied Mathematics, METU, 2008.

- T. Paksoy, N.Y. Pehlican, E. Özceylan and G.-W. Weber, Fuzzy optimization of a multi stage multi item closed-loop flexible supply chain network under fuzzy material requirement constraints, preprint at IAM, METU.
- G.-W. Weber, I. Batmaz and A. Özmen, Robust conic quadratic programming - A robustification of CMARS, preprint at IAM, METU.
- E. Kropat and G.-W. Weber, Robust regression analysis for gene-environment and eco-finance networks under polyhedral and ellipsoidal uncertainty, preprint at IAM, METU, submitted for publication.
- K. Korenblat, Z. Volkovich and G.-W. Weber, Toward to Inverse Problem of Feature Selection for Microarray Data preprint at IAM, METU.
- V. Podobedov and G.-W. Weber, OR and Abstract Painting, report at IAM of METU (2012).
- L. Koshlai and G.-W. Weber, OR in Economy — With Special Emphasis to Economies in Transition — Dedicated to the Commemoration of Prof. Dr. Mikhail Mikhalevich, submitted to OR News and IFORS News.
- S. Belen Algümüs, E. Kropat and G.-W. Weber, Dynamical biological processes on evolutionary networks - dynamic networks and conjugation processes in microbiology, submitted to EJOR (European Journal on Operational Research).
- F. Basoglu, Z. Cavusoglu and G.-W. Weber, Predicting bubbles in the Turkish stock market with macroeconomic indicators - A comparison of logit regression, MARS and CMARS, working paper at IAM, METU.
- F. Yerlikaya-Özkurt and G.-W. Weber, Identification of stochastic differential equations by conic optimization of multivariate adaptive regression splines.
- R. Nibhani, A. Soffer, A. Mualem, Z. Volkovich, G.-W. Weber and Z. Frenkel, Partitioning Protein Connectivity Networks using a K-Ladder connectivity algorithm.
- M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, Wavelet Adaptive Regression Splines: a New Method for Day Ahead Electricity Prices Forecasting.
- M.H. Yildirim, E. Kalayci, A. Belel Ismaila and G.-W. Weber, Stochastic Portfolio Optimization of Nigerian Electricity Market.
- K.D. Ünlü, A.S. Selcuk-Kestel and G.-W. Weber, Economical Assessment of Carbon Emission under Growing GDP.
- B.Z. Temocin, A.S. Selcuk-Kestel and G.-W. Weber, Modification of Turkish Catastrophe Insurance Pool Rates for Managing the Earthquake Risk.
- S.K. Roy, S. Midya and G.W. Weber, Fuzzy multi-objective fractional programming through rough approximation and its application to fixed-charge transportation problem, submitted to Fuzzy Optimization and Decision Making.

- E.V. Ravve, Z. Volkovich and G.-W. Weber, Logic-Based Approach to Incremental Reasoning on Strongly Distributed Data Streams.
- S. Midya, S.K. Roy and G.-W. Weber, Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertain environment solved, submitted to Neural Computing and Applications.
- G. Maity, N. Kotal, S.K. Roy and G.-W. Weber, Generalized modified search technique based on Fibonacci and Lucas methods.
- A. Kerimov, E. Kürüm and G.-W. Weber, Detecting Stock Market Bubbles via Illiquidity Premium in Derivative Markets.
- S.Z. Alparslan Gök, S. Ergün, P. Usta and G.W. Weber, A Game Theoretical Approach to Emergency Logistics Planning in Natural Disasters, submitted to Iranian Journal of Science and Technology Transactions of Civil Engineering.
- E.V. Ravve, Z. Volkovich and G.-W. Weber, Logic-based Approach to Incremental Reasoning on Strongly Distributed Streams, submitted to AI Communications, the Special Issue on Automated Reasoning.
- F. Yilmaz, H. Öz and G.W. Weber, Strong-Order Conditions of Runge-Kutta Method for Stochastic Optimal Control Problems, submitted to Applied Numerical Mathematics.
- M. Pervin, S.K. Roy and G.W. Weber, Deteriorating inventory model of imperfect items with variable demand and shortages under trade-credit, submitted to Hacettepe Journal of Mathematics and Statistics.
- E.V. Ravve, Z. Volkovich and G.W. Weber, Complexity Analysis of Incremental Reasoning on Multi-Agent Systems.
- S. Kuter, B.B. Ciftci, P. Vasant and G.-W. Weber, Utilizing Artificial Neural Networks and Support Vector Machines for Fractional Snow Cover Mapping from Satellite Data.
- S. Khalilpourazari, A. Mirzazadeh, G.-W. Weber and S.H.R. Pasandideh, A robust fuzzy approach for constrained multi-product Economic Production Quantity with imperfect items and rework process.
- B. Shakirov and G.W. Weber, Modeling Advanced Fund Transfer Pricing with an Application of Hull-White Interest-Rate Tree in Turkish Banking Sector.
- M. Pervin, S.K. Roy and G.-W. Weber, An integrated vendor-buyer model with quadratic demand under inspection policy and preservation technology.
- S.K. Das, S.K. Roy and G.-W. Weber, An exact and a heuristic approach for transportation- p -facility location problem, submitted to Computational Management Science.
- A. Goli, E. Babae Tirkolae, M. Soltani and G.-W. Weber, A Multi-Objective Reliable Pollution Routing Problem with Cross-dock Selection, submitted to Optimization, Special Issue “WGSCO2018 - Workshop on Graph Spectra,

Combinatorics and Optimization”.

- E. Savku and G.-W. Weber, Stochastic Differential Games for Optimal Investment Problems in a Markov Regime-Switching Jump-Diffusion Market, submitted to EJOR.
- M. Pervin, S.K. Roy, and G.-W. Weber, Deteriorating inventory model of imperfect items with inspection policy and variable demand under trade-credit, submitted to Journal of Manufacturing Systems, submitted to Operational Research (ORIJ).
- B. Kalayci, A. Özmen, A. Karimov and G.-W. Weber, Interaction between Investors’ Neural-Behavioral Responses and Finance by Modeling Coupled Stochastic Systems with Multivariate Adaptive Regression Splines.
- B. Gürbüç and G.-W. Weber, Balıkesir hosts OR meeting which exceeds the limits, submitted to OR News.
- J. Grobelny, R. Michalski and G.-W. Weber, Modeling Human Thinking about Similarities by Neuromatrices in the Perspective of Fuzzy Logic, submitted to IEEE Transactions on Fuzzy Systems (IEEE TFS), the special issue *Fuzzy Analytics and Stochastic Methods in Neurosciences*.
- E. Köksal, A. Özmen and G.W. Weber, Prediction of Exchange Rates by Multivariate Adaptive Regression Splines and Comparison with Classical Statistical Methods, submitted to ANOR, the special issue *Recent Developments in Financial Modeling and Risk Management*.
- B. Kjamili and G.-W. Weber, A Rookie’s Welcome at EURO 2018 - OR for Development - OR-Analytics in a Start-Up Project for Refugees, submitted to OR News.
- E. Babae Tirkolae, G.-W. Weber, M. Soltani and Z. Dashtian, Robust goal programming with Fuzzy AHP-TOPSIS for green supplier selection in an agri-food supply chain, submitted to ANOR, the special issue *Agriculture Analytics, BigData, and Sustainable Development*.
- P. Sannyashi, M. Pervin, S.K. Roy and G.-W. Weber, A non-instantaneous deteriorating inventory with composite demand and time-dependent holding cost, submitted to Economic Modelling, submitted to Journal of Industrial and Production Engineering.
- S.S. Ali, R. Kaur, F. Ersöz, B.A. Altaf and G.-W. Weber, Measuring Carbon Performance for Sustainable Green Supply Chain Practices, submitted to CEJOR.
- S. Moslemi, A. Mirzazadeh, G.-W. Weber and M.A. Sobhanallahi, Performance Evaluation and Prediction of Sustainable Pharmaceutical Supply Chain Using Neuro-AP-NDEA Model Based on Revised BSC under IFB-IER Uncertainty, submitted to NACO.
- C. Cetinkaya, E. Özceylan, S.K. Isleyen and G.W. Weber, Emergency Shelter

- Site Selection in Maar Shurin Community of Idlib (Syria), submitted to CEJOR, the Special Issue on *OR for Sustainable Development* on the occasion of the 2018 Workshop of the EURO Working Group on OR for Development (EWG-ORD) Madrid, Spain.
- S. Khalilpourazari, S. Soltanzadeh, G.-W. Weber and S.K. Roy, Designing an Efficient Blood Supply Chain Network in Crisis: Neural Learning, Optimization and Case Study, submitted to ANOR, the special issue *OR in Neuroscience II*.
 - E. Tirkolaee, A. Goli, Alireza, G.-W. Weber and I. Mahdavi and N. Mahdavi-Amiri, Multi-trip location-pollution-routing problem with time windows considering intermediate depots for multiple perishable products distribution, submitted to EJOR.
 - B. Gürbüz and G.-W. Weber, A Double OR Meeting: Broadening Horizons, submitted to OR News and EUROPT Newsletter.
 - A. Bhaumik, S.K. Roy and G.-W. Weber, Hesitant interval-valued intuitionistic fuzzy-linguistic term set approach in Prisoners' dilemma game theory using TOPSIS: A case study on Human-trafficking, submitted to CEJOR, the Special Issue on *OR for Sustainable Development* on the occasion of the 2018 Workshop of the EURO Working Group on OR for Development (EWG-ORD) Madrid, Spain.
 - M.F. Karadeniz, T. Karadeniz, A.S. Karadeniz and G.-W. Weber, Zfit: Improvement of Zlib on Astronomical Images with Polynomial Curve Fitting, submitted to the book Modeling, Optimization, Dynamics and Bioeconomy VI, Springer Proceedings in Mathematics & Statistics.
 - S. Ergün, O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Sequencing Grey Games, submitted to Journal of Dynamics and Games.
 - E. Babaee Tirkolaee, S. Hadian, A. Goli and G.-W. Weber, Multi-objective Optimization of Two-echelon Capacitated Green Routing Problem with Time windows and Intermediate Depots for Perishable Products Distribution, submitted to Journal of Cleaner Production.
 - E. Babaee Tirkolaee, A. Goli, G.-W. Weber and I. Mahdavi, The Location-Pollution-Routing Problem for Multiple Perishable Products Supply, submitted to EJOR, the special issue *OR as an ubiquitous science* at the occasion of of EURO 2018 Valencia.
 - R. Lotfi, Y. Zare Mehrjerdi, M.S. Pishvaei, A. Sadeghieh and G.-W. Weber, Robust optimization in designing sustainable and resilient closed-loop supply chain network considering conditional value-at-risk, submitted to JIMO.
 - P. Taylan, F. Yerlikaya-Özkurt, B. Bilgic Uca and G.W. Weber, A new outlier detection method based on convex optimization: Application to diagnosis of Parkinsons disease, submitted to ANOR, the special issue *Operations Research in Neuroscience II*.

- E. Babae Tirkolae, S. Hadian and G.-W. Weber, A robust green routing problem with intermediate depots considering urban traffic condition and fuel consumption for perishable products distribution, submitted to CEJOR.
- M. Pervin, S. Kumar Roy and G.-W. Weber, Effect of Neuroscience in Inventory Management and Marketing Research, Journal of Ambient Intelligence and Humanized Computing.
- S.K. Das, M. Pervin, S.K. Roy and G.-W. Weber, Multi-objective solid transportation location problem with variable carbon emission in inventory management: a hybrid approach submitted to EJOR, the Special Issue *VSI: OR as an ubiquitous science* at the occasion of EURO 2018 in Valencia.
- E. Babae Tirkolae, S. Hadian and G.-W. Weber, A robust green traffic-based routing problem for perishable products distribution, submitted to Computational Intelligence (COIN), the special issue at the occasion of ICO' 2019, Pattaya, Thailand.
- A. Özmen, Y. Zinchenko and G.-W. Weber, Robust Multivariate Adaptive Regression Splines under Cross-Polytope Uncertainty - An Application in Natural Gas Market, submitted to EJOR, the Special Issue *VSI: OR as an ubiquitous science* at the occasion of EURO 2018 in Valencia.
- F. Gharbalchi No, Y. Serinagaoglu Dogrusoz, O. Onak and G.-W. Weber, Reduced leadset selection and performance evaluation in the inverse problem of electrocardiography for reconstructing the ventricularly paced electrograms, submitted to Journal of Electrocardiology.
- E. Babae Tirkolae, Z. Dashtian, M. Soltani and G.W. Weber, A Comprehensive Methodology for Sustainable Supplier Selection in a Two-Echelon Reliable Supply Chain Design: A Case Study.
- N. Gökgoz, H. Öktem and G.-W. Weber, Tumor-Immune Stochastic Dynamics with Memory, submitted to Computational Intelligence (COIN), the special issue at the occasion of ICO' 2019, Pattaya, Thailand.
- E. Babae Tirkolae, M. Ranjbar-Bourani, G.-W. Weber and I. Mahdavi, A bi-objective robust mathematical model for rescue units allocation and scheduling with learning effect, submitted to OR Spectrum, Special Issue on Innovative Approaches in Humanitarian Operations.
- E. Babae Tirkolae, A. Mardani, M. Soltani, Z. Dashtian and G.-W. Weber, A Novel Hybrid Method Using Fuzzy Decision Making and Multi-Objective Programming for Sustainable-Reliable Supplier Selection in Two-Echelon Supply Chain Design, submitted to Journal of Cleaner Production.
- E. Savku and G.-W. Weber, A Regime-Switching Model with Applications to Finance: Markov and Non-Markov Cases, submitted to the book *Dynamic Economic Problems with Regime Switches*, Springer.
- G.-W. Weber, B. Kjamili and D. Czerkawski, LiBerated Social Entrepreneur. Using Business Metrics: Migport Refugee Big Data Analytics. With a

Note on Ability and Disability, submitted to the special issues of Engineering Science and Technology, an International Journal (JESTECH) at occasion of IDSES'19 E-Book - International Data Science & Engineering Symposium, Safranbolu, Turkey.

- H. Barman, M. Pervin, S.K. Roy and G.-W. Weber, Back-ordered inventory model with variable demand and constant inflation rate in cloudy-fuzzy environment, submitted to JIMO.
- M. Szczepanski, L. Dopierala, K. Koodziejczyk, I. Baltas, A.N. Yannacopoulos and G.-W. Weber, Optimal Pension Fund Management under Risk and Uncertainty: The Case Study of Poland, submitted to the book Modeling, Optimization, Dynamics and Bioeconomy VI, Springer Proceedings in Mathematics & Statistics.
- E. Babaee Tirkolaee, I. Mahdavi, M.M. Seyyed Esfahani and G.-W. Weber, A Robust Location-Allocation-Inventory Problem to Design Urban Waste Management System under Uncertainty, submitted to Waste Management.
- R. Lotfi, Z. Yadegari, S.H. Hosseini, A.H. khameneh and G.-W. Weber, A Robust Time-Cost-Quality-Energy-Environment Trade-off problem with a Case Study of a Bridge Construction Project in Tehran, submitted to Journal of the Operational Research Society.

2.9 Further Contributions to Books and Special Issues

- Assistance in writing of the book
G. Jank and H.Th. Jongen, *Höhere Mathematik I für Maschinenbauer*, Augustinus-Buchhandlung publishing house (now: Mainz publishing house) Aachen, 1990.
- Assistance in writing of the book
G. Jank and H.Th. Jongen, *Höhere Mathematik II für Maschinenbauer*, Aachen Beiträge zur Mathematik 4, Augustinus-Buchhandlung publishing house (now: Mainz publishing house), Aachen, 1992.
- G.-W. Weber, Editorial Advisory Board member of the book: Ö.F. Yilmaz and S. Tüfekci, eds., *Applied Optimization Methodologies in Manufacturing Systems*, IGI Global, November 2017, 449 pages.
- G.-W. Weber, Editorial Advisory Board member of the book: I. Nekrasova, O. Karnaukhova and B. Christiansen, eds., *Fractal Approaches for Modeling Financial Assets and Predicting Crises*, IGI Global, February 2018, 306 pages.

3 Survey on Teaching Experience

3.1 Own Responsible Courses⁴

- 1989/90** Substitution of lectures in *Analysis IV* (in Grundstudium⁵) and in *Optimierung A* (Hauptstudium⁶) at RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen)
- SS 1994** ⁷Substitution of lectures in *Analysis II* (Grundstudium) at TH Darmstadt (Darmstadt University of Technology)
- WS 1994/95** ⁸**Lecture** *Topologische Methoden in der Optimierung* at TH Darmstadt (Hauptstudium; L2)
- WS 1995/96** **Lecture** *Topologische Methoden in der Optimierung* at TH Darmstadt (Hauptstudium; L2)
- SS 1996** **Project-Proseminar II** at TH Darmstadt (e.g., mapping degree, elementary algebraic-topological investigations in optimization; Grundstudium, P2) with edition of a “readers” (report)
- WS 1996/97** **Lecture** *Mathematik for Human- und Sozialwissenschaftler* at TH Darmstadt (Grundstudium; L2+E2)
- SS 1997** **Seminar/lecture** *Werkstattgespräch Analysis* at TH Darmstadt (with advanced, but also with first years students and with guests; L2+S2) (workshop/colloquy, two meetings each week)
- WS 1997/98** **Lecture** *Einführung in die Diskrete Mathematik* at TU Darmstadt (Hauptstudium; L4+E2)
- SS 1998** **Seminar** *Werkstatt Diskrete Mathematik und Topologie* at TU Darmstadt (Hauptstudium; S2-4, two meetings each week) (workshop/project seminar)
- WS 1998/99** **Seminar** *Werkstatt Diskrete Mathematik und Topologie* at TU Darmstadt (Hauptstudium, also for interested students from Grundstudium; S2)
- SS 1999** **Lecture** *Analysis IV - Komplexe Funktionentheorie* (Grundstudium; L2+E2) and **Seminar** *Werkstatt Diskrete Mathematik und Topologie* (S2-4) at TU Darmstadt (Workshop/project seminar, two meetings each week; with Prof. Dr. W. Krabs and Dr. S. Pickl)
- WS 1999/2000** **Lecture** *Einführung in die Diskrete Mathematik* at TU Darmstadt (Hauptstudium; L4+E2) and **Seminar** *Werkstatt Diskrete Mathematik und Topologie* (S2) at

⁴ L: lecture, E: exercise, P: project, S: seminar; followed by numbers of hours / week

⁵ first two years of study

⁶ advanced study

⁷ SS: summer semester

⁸ WS: winter semester

- TU Darmstadt, Special topics: Higher complex analysis, mapping degree, at TU Darmstadt (two meetings each week; with Prof. Dr. W. Krabs and Dr. S. Pickl)
- SS 2000** **Lecture** *Analysis I* at TU Darmstadt (Grundstudium; L4+E2+T2) and
(Project) seminar workshop *Semi-definite Optimierung, semi-infinite Optimierung - diskrete und topologische Strukturen und Anwendungen* (P2) at TU Darmstadt (with Prof. Dr. Ch. Herrmann and Dr. S. Pickl)
- WS 2000/01** **Substitution of a professor position (chair, “C4”)** in *Mathematical Institute at University of Cologne*;
Lecture *Algorithmische Mathematik für Wirtschaftsinformatiker* (students of informatics in economy) (Grundstudium; L3+E2)
- SS 2001** **Substitution of a professor position (chair)** in *Faculty of Mathematics at University of Technology Chemnitz*;
Lecture *Mathematische Optimierung in Finanzwirtschaft und Risikomanagement - diskrete, stetige und stochastische Optimierung bei Lebensversicherungen, Bausparverträgen und Portfolios* (Hauptstudium; L4+E2) and
(Project) seminar workshop *Diskrete Tomographie und Verkehrsprobleme* (S2)
- WS 2001/02** Within the substitution of a professor position mentioned previously:
Lecture *Einführung in die Diskrete Mathematik* (Hauptstudium; L4+E2) and
Lecture *Mathematik III für Wirtschaftsinformatiker* (students of informatics in economy) (Grundstudium; L2+E1)
- SS 2002** Intensive mathematical supervision (L6+E4) of students of bioinformatics within of research projects “Bioinformatik 2001 plus – Molekulare Netzwerke in Organismen – Grundlagen und Anwendungen in Biotechnologie, Pharmazie und Medizin” (in *English*)
- Spring 2003** **Lecture** *Numerical Optimization* at IAM of METU, Ankara, (Graduate Course; E4+E1) (with Prof. Dr. B. Karasözen) and
Lecture and Seminar *Scientific Programming* at IAM of METU, Ankara, (Graduate Course; L3+E/S2) (with Prof. Dr. B. Karasözen, Assoc. Prof. Dr. F. Özbüyük and Assist. Prof. Dr. A. Tiefenbach)
- Fall 2003/04** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);

- Lecture and Seminar** *Mathematical Modelling* (Graduate Course; L3+S2) (with Prof. Dr. M. Akhmet)
and
Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. B. Karasözen and MSc. G. Sagdicoglu)
- Spring 2004** **Lecture** *Numerical Optimization* at IAM of METU, Ankara, (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);
Lecture *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture and Seminar *Scientific Programming – Introduction to Algorithms and Complexity* (Graduate Course; L3+S2) (with Dr. H. Öktem and Dr. Ö. Ugur)
and
Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. B. Karasözen, Dr. H. Öktem and MSc. G. Sagdicoglu)
- Fall 2004/05** **Lecture** *Data Mining, Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);
Lecture and Seminar *Advanced Continuous Optimization* at IAM of METU, Ankara, (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen)
and
Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. B. Karasözen, Dr. H. Öktem and MSc. G. Sagdicoglu)
- Spring 2005** **Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);
Lecture *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture *Introduction to Algorithms and Complexity* (Graduate Course; L3+E/S2) (with Dr. Ö. Ugur)
and
Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. A. Aytuna, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Dr. H. Öktem, MSc. G. Sagdicoglu and Dr. Ö. Ugur)
- Fall 2005/06** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);
Lecture and Seminar *Advanced Continuous Optimization* at

IAM of METU, Ankara (Graduate Course; L/S4)

and

Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, MSc. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

Spring 2006

Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);

Lecture *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);

and

Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Prof. Dr. V. Atalay, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, MSc. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

Fall 2006/07

Lecture *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1);

Lecture *Mathematical Modelling* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. H. Öktem);

Lecture and Seminar *Advanced Continuous Optimization* at IAM of METU, Ankara, (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen); and

Seminar *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

Spring 2007

Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1);

Lecture *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);

and

Seminar *on Computational Biology, Medicine, Environment and Development* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Hayri Körezlioglu, Prof.

Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür,
Dr. D. Sezer, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

- Fall 2007/08** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);
Lecture and Seminar *Advanced Continuous Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen); and
Seminar *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. D. Sezer, Dr. G. Sagdicoglu and Dr. Ö. Ugur)
- Spring 2008** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. I. Ulusoy);
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Dr. D. Sezer); and
Seminar *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. Devin Sezer and Dr. Ö. Ugur)
- Fall 2008/09** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. Ö. İlk);
Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen),
Lecture *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Seminar *on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. Devin Sezer and Dr. Ö. Ugur)
- Spring 2009** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Gradua-

te Course; L4+E1) (with Assist. Prof. Dr. I. Ulusoy);
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4);
Lecture and Seminar *Advanced Continuous Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen) and
Seminar *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Assist. Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Dr. Devin Sezer and Assist. Prof. Dr. Ö. Ugur)

Summer 2009 **Lecture** *Modern Operational Research and Its Mathematical Problems* at 4th Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 5-16, 2009 (10 hours) (with MSc. Basak Akteke-Öztürk)

Fall 2009/10 **Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1),
Lecture *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Seminar *on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. Özögür Akyüz, Dr. Devin Sezer, Assist. Prof. Dr. Ö. Ugur and Cand. PhD. A. Sariaydin)

Spring 2010 **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and
Seminar *on Applied Mathematics (Financial Mathematics, Economics, Human and Life Sciences)*, IAM, METU, (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. Azize Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Dr. Devin Sezer and Assist. Prof. Dr. Ö. Ugur)

- Summer 2010** **Lecture** *Modern Operational Research and Its Mathematical Problems - with an Emphasis on Financial Mathematics* at 5th Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 3-15, 2010 (12 hours)
- Fall 2010/11** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1),
Lecture *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Seminar *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. A. Sariaydin and Prof. Dr. Martin Rainer)
- Spring 2011** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and
Seminar *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. A. Sariaydin and Prof. Dr. Martin Rainer)
- Fall 2011/12** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Seminar *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand., Assist. Pror. Dr. Yeliz Yolcu Okur, Cand. PhD. A. Sariaydin, Cand. PhD. N. Öztıp and Prof. Dr. Martin Rainer)
- Winter 2011/12** **Lecture** *On Portfolio Optimization and Financial Modelling*

under Various Assumptions on Time-Dependence: Foundations and Recent Achievements under Hybrid Stochastic Systems at 1st Winter School on Stochastic Dynamics and Control in Finances and Economics ISEG, the Economics and Business School, Technical University of Lisbon, Portugal January 16-20, 2012 (5 hours)

- Spring 2012** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and
Seminar *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. N. Noztop and Prof. Dr. Martin Rainer)
- Summer 2012** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 7th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 3-15, 2012 (10 hours)
- Fall 2012/13** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1; with Prof. Dr. Saziye Gazioğlu); and
Lecture *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2013** **Lecture** *Financial Economics* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2013** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 8th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 1-17, 2013 (10 hours)
- Fall 2013** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2014** **Lecture** *Financial Economics* at IAM of METU, Ankara (Graduate Course; L4+E1); and

- Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2014** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 9th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 1-15, 2014 (8 hours)
- Fall 2014** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2015** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2015** **Lecture** *Smart Cities: Operational Research, Energy and Urbanistics* at 10th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 4-18, 2015 (4+2 hours)
- Fall 2015** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2016** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Fall 2016** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1; with Prof. Dr. Bülent Karasözen)
- Spring 2017** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1); and
Lecture *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2018** **Lecture** *Marketing Research* at Faculty of Engineering Management of Poznan University of Technology;
Lecture *Financial Accounting* at Faculty of Engineering Management of Poznan University of Technology;
Lecture *Operational Research and Econometrics* at Faculty of Engineering Management of Poznan University of Technology;
Lecture *Decisions and Marketing Games* at Faculty of Engineering Management of Poznan University of Technology.
- Fall 2018-2019** **Lecture** *International Marketing* at Faculty of Engineering Management of Poznan University of Technology.

Spring 2019 **Lecture** *Marketing Research* at Faculty of Engineering Management of Poznan University of Technology;
Lecture *Financial Accounting* at Faculty of Engineering Management of Poznan University of Technology;
Exercises *Financial Accounting* at Faculty of Engineering Management of Poznan University of Technology (with Dr. Marek Miadowicz).

3.2 Further Supervision

Besides the responsible activities/lectures listed in 3.1, I also guided the **exercises** of a number of further courses of *Grundstudium*:

- *Analysis*
- *Höhere Mathematik für Elektrotechniker and Wirtschaftselektrotechniker* (very large course)
- *Höhere Mathematik für Maschinenbauer* (very large courses)
- *Lineare Algebra für Physiker*
- *Numerische Algorithmen für Informatiker und Wirtschaftsinformatiker*

at RWTH Aachen or TU (TH) Darmstadt, and in the course of *Hauptstudium*:

- *Einführung in die Diskrete Mathematik* (WS 1998/99, TU Darmstadt).

Furthermore, I collaborated in

- *Interdisziplinären Modellierungseminar* (WS 1993/94, 1994/95, TH Darmstadt)

and supervised many students with their advanced works. I started this activity in 1988-1992 as a scientific coworker at RWTH Aachen. During my Darmstadt years as a scientific coworker and assistant (since 1993), my responsibility for **diploma theses, state examination theses** (final works of candidates for the teaching profession), **MSc. theses**, etc., increased.

At last, the following works were finished under my supervision (chronologically listed):

- Marion Möller, *Das Travelling Salesman Problem: Moderne Entwicklungen angewandt auf ein klassisches Problem der Diskreten Mathematik*, state examination thesis at Department of Mathematics at TU Darmstadt, 1998.

- Samara Shahin, *Crew-Management im Bahnverkehr - Diskrete Optimierungsverfahren dargestellt am Beispiel der italienischen und deutschen Bahn*, diploma thesis in Department of Mathematics at TU Darmstadt, 1998.
- Andreas Rößler, *Das Piano Mover Problem*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Sylvia Welisch, *Ausgewählte Färbungsprobleme und deren Behandlung mit modernen Methoden der Diskreten Mathematik*, state examination thesis in Department of Mathematics at TU Darmstadt, 1999.
- Sermin Bozkuş, *Methoden der Diskreten Optimierung in der Planung des Crew-Einsatzes beim Bahn- und beim Luftverkehr*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Erik Kropat, *Fuzzy-Unabhängigkeitstheorie und Fuzzy-Matroide*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999; appeared in: Wissenschaftlicher Verlag Berlin, 2002.
- Markus Möller, *Einige Bemerkungen zur Theorie der semidefiniten Optimierung*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Sascha Ahner, *Moderne Methoden der Diskreten Mathematik in der Planung eines Eisenbahnnetzes*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Nina Diergardt, *Optimale Ressourcenverteilung auf Brücken eines Eisenbahnnetzes zur Erhöhung der Erdbebenzuverlässigkeit - Anwendungen der modernen diskreten Mathematik*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Wiebke Dewald, *Moderne Methoden der Diskreten Mathematik eingesetzt zum Datenschutz bei der Veröffentlichung von Statistiken in Tabellen*, diploma thesis in Department of Mathematics at TU Darmstadt, 2000.
- Jens Lang, *Mathematische Methoden der Kryptographie mit Hilfe der Komplexitätstheorie*, diploma thesis in Department of Mathematics at TU Darmstadt, 2000.
- Petra Fakler, *Moderne analytische und diskret-mathematische Methoden, angewendet auf Probleme der Kanalvergabe in Mobilfunknetzen*, state examination thesis in Department of Mathematics at TU Darmstadt, 2000.
- Andreas Barth, *Das diskrete Optimierungsproblem der kürzesten Wege in Netzwerken und seine modernen Algorithmen im theoretischen und praktischen Vergleich*, diploma thesis in Department of Mathematics at TU Darmstadt, 2001.

- Martin Friedemann, *Analyse des Erfolgspotentials der Personalwerbung über das Internet und Untersuchung des Personalauswahlproblems mit Hilfe der Graphen-/ Matchingtheorie unter besonderer Berücksichtigung eines großen Versorgungsunternehmens in den neuen Bundesländern*, diploma thesis at Faculty of Mathematics at TU Chemnitz, 2002.
- Ute Möller, *Untersuchung und funktionale Implementierung des Verkehrsaufkommens auf Autobahnen zum Zwecke der Verkehrsleitung mit Hilfe der Diskreten Mathematik und der numerischen Signaltheorie*, diploma thesis at Department of Mathematics at TU Darmstadt, 2002.
- Andreas Ettl, *Moderne mathematische Methoden zur Lösung von Alignment- und Mustererkennungsproblemen in der Bioinformatik*, diploma thesis at Department of Mathematics at TU Darmstadt, 2002.
- Jose Augusto Amgarten Quitzau, *A Distance-Based Approach to Assign and Visualize Relatedness between Sequence-Based Phylogenetic Trees*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Prof. Dr. Ulrich Faigle, Dipl.-Math. Jutta Gebert and Dr. Röbbbe Wünschiers).
- Emily Quek Ming Poh, *Mathematical Modelling and Implementation of a Path-Finding Algorithm for a Problem in Genetic Networks*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Dipl.-Math. Jutta Gebert, Dipl.-Math. Martin Lätsch and Dipl.-Math. Alexander Schönhuth).
- Thomas Wiebringhaus, *Protein Fold Prediction Using Neural Networks Reconsidered*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Dipl.-Math. Jutta Gebert, Dipl.-Inf. Christian Igel and Prof. Dr. Dietmar Schomburg).
- Elena Dalinger, *Aktuelle Fragestellungen der Diskreten Tomographie und ihre komplexitaetstheoretische Behandlung*, Diplomarbeit am Fachbereich Mathematik der TU Darmstadt, 2003.
- Martin Lätsch, *Distance between Strings and Its Application to Amino Acid Sequences*, diploma thesis at Faculty of Mathematics at TU Chemnitz, 2003 (supervision with Prof. Dr. Bernd Luderer).
- Frank Thierolf, *Mathematische Modelle und Methoden zur Genexpressionsanalyse in der Bioinformatik*, diploma thesis at Department of Mathematics at TU Darmstadt, 2003.

- Michael Pöhner, *Petri-Netze als mathematisches Werkzeug zur Prozesssteuerung - Das Resultat eines graphentheoretischen Ansatzes*, diploma thesis at Department of Mathematics at TU Darmstadt, 2004.
- Fatma Bilge Yilmaz, *Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks*, MSc. Thesis at Institute of Applied Mathematics der METU, Ankara, 2004.
This work got a *Best Thesis Award of METU* in 2005.
- Elena Bekhman, *Analyse und Konstruktion eines mathematischen Algorithmus für die Untersuchung der Stabilität dynamischer Systeme*, diploma thesis at Institute for Mathematics at University of Cologne, 2004.
- Süreyya Özögür, *Mathematical Modelling of Enzymatic Reactions, Simulation and Parameter Estimation*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).
This thesis was published as a book in VDM Verlag Dr. Müller e.K., ISBN 978-3-639-13153-6.
- Aysun Tezel, *Smooth and Nonsmooth Newton Methods for Solving Semi-Infinite Programming*, MSc. Thesis at Department of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).
- Basak Akteke, *Derivative Free Optimization Methods: Application in Stirrer Configuration and Data Clustering*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).
- Hale Taskin Ince, *Analysis of Bauspar System and Model Based Clustering with Hidden Markov Models*, MSc. Term Project Report/Thesis in Financial Mathematics, Life Insurance, at Institute of Applied Mathematics of METU, Ankara, 2005.
- Seval Cevik, *Credit Rating of Bonds, Interest Rate Processes and Modelling with a Hidden Markov Chain Model*, MSc. Term Project Report/Thesis in Financial Mathematics, Life Insurance, at Institute of Applied Mathematics of METU, Ankara, 2005.
- Mesut Tastan, *Analysis and Prediction of Gene Expression Patterns by Dynamical Systems and a Combinatorial Algorithm*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005.
- Osman Özgür, *Discrete Tomographic Reconstruction Methods from the Theories of Optimization and Inverse Problems: Application in VLSI Microchip Production*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006.
- Nuray Celebi, *Public Debt Management in Turkey with Stochastic Optimization Approach*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006 (with Assist. Prof. Dr. Esmâ Gaygisiz).

- Arda Kurt, *Boundary Element Formulation and Its Solution in Forward Problem of Electrocardiography by Using a Realistic Torso Model*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006.
- Muhammed Alkin, *Text Mining: A Burgeoning Quality Improvement Tool from Applied Mathematics*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2007.
- Daniel Akume, *Risk-Constrained Dynamic Portfolio Management*, PhD. Thesis, University of Yaounde I, Yaounde, Cameroon, 2008 (coadvisor).
- Nurgül Gökgöz, *Development of Tools for Hybrid Systems with Memory*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2008 (coadvisor; with Assist. Prof. Dr. Hakan Öktem).
- Fatma Yerlikaya, *A New Contribution to Nonlinear Robust Regression and Classification with MARS and Its Application to Data Mining for Quality Control in Manufacturing*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2008.
This work got a *Best Thesis Award of METU* in 2009.
- S. Zeynep Alparslan Gök, *Cooperative Interval Games*, PhD Thesis at Institute of Applied Mathematics of METU, Ankara, January 26, 2009.
- Süreyya Özögür Akyüz, *A Mathematical Contribution of Statistical Learning and Continuous Optimization Using Infinite and Semi-Infinite Programming, to Computational Statistics*, PhD Thesis at Institute of Applied Mathematics of METU, Ankara, February 6, 2009.
- Erkan Büyükbeci, *Comparison of MARS, CMARS and CART in Predicting Default Probabilities for Emerging Markets*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2009.
- Sedat Sarıkaya, *Combination of Conventional Regularization Methods and Genetic Algorithms for Solving the Inverse Problem of Electrocardiography*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Assist. Prof. Dr. Yesim Serinagaoglu Dogrusöz), February 2010.
- Belgin Kayhan, *Parameter Estimation in Generalized Partial Linear Models with Tikhonov Regularization Method*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, September 2010.
- Gül Celik, *Parameter Estimation in Generalized Partial Linear Models with Conic Quadratic Programming*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Prof. Dr. Bülent Karasözen), September 2010.

- Basak Akteke Öztürk, *New Approaches to Desirability Functions by Nonsmooth and Nonlinear Optimization*, PhD. Thesis at Institute of Applied Mathematics of METU, Ankara, July/October 2010.
- Azer Kerimov, *Office Rent Variations in Istanbul CDB: an Application of Mamdani and TSK-Type Fuzzy Rule Based System*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Assoc. Prof. Dr. Isil Erol), August 2010.
- Ayşe Özmen, *Robust Conic Quadratic Programming Applied to Quality Improvement - A Robustification of CMARS*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, August/September 2010.
This work got a *Best Thesis Award of METU* in 2012.
- Zehra Cavusoglu, *Predicting Default Probabilities in Emerging Markets by Generalized Partial Linear Models*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2010.
- Hatice Sakarya, *Modern Data Reduction Techniques and Some Applications*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, December 2010 - January 2011.
- Gürkan Üstüinkar, *An Integrative Approach to Structured SNP Prioritization and Representative SNP Selection for Genome-Wide Association Studies*, PhD. Thesis at Informatics Institute (Graduate School of Informatics) of METU, Ankara (coadvisor; with Assist. Prof. Dr. Yesim Aydin Son), January 2011.
- Zeynep Cobandag, *Risk Modeling in Optimization Problems via Value at Risk and Conditional Value at Risk*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2011.
- Özlem Defterli, *Modern Mathematical Methods in Modeling and Dynamics of Regulatory Systems of Gene-Environment Networks*, PhD. Thesis at Department of Mathematics of METU, Ankara (coadvisor; with Assoc. Prof. Dr. S. Kaya Merdan), August 2011.
- Tugce Gönüz, *Stochastic Hybrid Systems Driven by Lévy Processes*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2012.
- Yasemin Yildiz, *Risk Measurement by Value at Risk and an Application with Its Modern Methods*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2012.

- Cigdem Güleroglu, Portfolio Insurance Strategies, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September-October 2012.
- Anil Karacayir, Short Term Electricity Load Forecasting with Multiple Linear Regression and Artificial Neural Network, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, October 2012.
- N. Funda Ayvazoglu, FX hedging via Options and Analysis of Different Strategies, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, October 2012.
- Erkan Kalayci, A MultiPeriod Stochastic Portfolio Optimization and Hedging Model Applied for the Aviation Sector in the EU ETS, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2013 (coadvisor; advisor: Assist. Prof. Dr. Esmâ Gaygisiz).
- Hacer Öz, Advances and Applications of Stochastic Ito-Taylor Approximation and Change of Time Method: in the Financial Sector, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2013.
- Simge Güneri, Statistical Network Analysis for Collaboration in Applied Mathematics, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, of Applied Mathematics of METU, Ankara, September 2013.
- Fatma Yerlikaya Özkurt, Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, December 2013.
(This work got a *Parlar Best PhD. Thesis Award of METU* in 2015.)
- Efsun Kürüm, Early Warning on Stock Market Bubbles via Ellipsoidal Clustering and Inverse Problems, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2013 (advisor: G.-W. Weber; coadvisor: Assist. Prof. Dr. C. Iyigün).
- Simge G. Örsçelik, Prediction of Insulin Resistance by Statistical Tool MARS, Prediction of Insulin Resistance by Statistical Tool MARS, MSc. Thesis in Bioinformatics at Informatics Institute of METU, Ankara, January 2014.
- Semih Kuter, Development of an Atmospheric Correction Model for Removing Atmospheric Effects from MSG-Seviri Images, PhD. Thesis in Geodetic and Geographic Information Technologies, METU, Ankara, February 2014 (coadvisor).

- Ömür Albayrak, Barrier Option Pricing, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2015.
- Ekin Kantar Özçirpan, Investigation of the Impacts of Linkage Disequilibrium (LD) on SNP Selection Studies, MSc. Thesis in Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey, January 2015 (advisor; co-advisor: Assoc. Prof. Dr. Cem Iyigün).
- Fourough Gharbalchi No, Body Surface Lead Reduction Algorithm and Its Use in Inverse Problem of Electrocardiography, MSc. Thesis in Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey, January 2015 (coadvisor; advisor: Assoc. Prof. Dr. Yesim Serinagaoglu).
- Ayşe Özmen, Advances in Robust Identification of Spline Models and Networks by Robust Conic Optimization with Applications to Different Sectors, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, February 2015 (advisor); appeared as: Robust Optimization of Spline Models and Complex Regulatory Networks — Theory, Methods and Applications, Contributions to Management Science, Springer, 2016 (<http://www.springer.com/gp/book/9783319307992>).
- Vafa Jafarova, Pricing And Risk Minimizing Hedging Strategies For Multiple Life Unit Linked Insurance Policies Using Constant Proportion Portfolio Insurance Approach, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, February 2015 (coadvisor: G.-W. Weber; advisor: Prof. Dr. Ö. Gebizlioglu).
- Miray Hanim Aslan Yildirim, Electricity Market Modeling Using Stochastic and Robust Optimization, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, March 2015 (advisor; co-advisor: Assoc. Prof. Dr. Özlem Türker Bayrak).
- Meslin Silalahi, Model Pemrograman Bilangan Bulat Multi Objektif Untuk Manajemen Limbah Pada Industri Minyak Mentah Sawit — Multi Objective Integer Programming Model for Effluent Management in Crude Palm Oil Industry, PhD. Thesis, Department of Mathematics, University of Northern Sumatra, Medan, Indonesia, August 2015 (coadvisor; advisor: Prof. Dr. Tulus; second coadvisor: Prof. Dr. Herman Mawengkang).
- Oluwakayode John Omole, Recent Developments in Portfolio Optimization via Dynamic Programming, MSc. Thesis in Financial Mathematics at Institute of Applied Mathematics of METU, Ankara, August 2015 (coadvisor; advisor: Assoc. Prof. Dr. Yeliz Yolcu Okur).

- Yavuz Yilmaz, Daily Natural Gas Consumption Prediction by MARS & CMARS Models for Residual Users in Ankara, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, Ankara, August 2015 (advisor).
- Selim Yayla, Regulatory Networks Studied by Ellipsoidal Calculus, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, Ankara, September 2015 (advisor; coadvisor: Assoc. Prof. Dr. Vilda Purutcuoglu).
- Nadi Serhan Aydin, Financial Modelling with Random Bridge Signals and Forward Information, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2016 (advisor: G.-W. Weber; coadvisor: Prof. Dr. A.G. Constantinides); appeared as the book *Financial Modelling with Forward-looking Information: An Intuitive Approach to Asset Pricing* in Contributions to Management Science, Springer-Verlag.
- Azar Karimov, Modeling Illiquidity Premium and Bid-Ask Prices of the Financial Securities, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor: G.-W. Weber; coadvisor: Prof. Dr. S. Teker); appeared as a book *Identifying Stock Market Bubbles: Modeling Illiquidity Premium and Bid-Ask Prices of Financial Securities* in Contributions to Management Science, Springer-Verlag.
- Güray Kara, Robust Conditional Value-at-Risk under Parallelepiped Uncertainty: an Application to Portfolio Optimization, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor).
- Nijat Muttalimov, An Implementation of the Black-Litterman Model with Quantitative Views from EGARCH Models and Comparisons, MSc. Term Project in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor).
- Sinem Keskin, Modern Portfolio Optimization with Value at Risk and Conditional Value at Risk - Explanation, Evaluation and Comparison, MSc. Term Project in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2017 (advisor).
- Ece Köksal, Modeling of Exchange Rates by Multivariate Adaptive Regression Splines and Comparison with Classical Statistical Methods, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2017 (advisor).
- Emre Akdoğan, Stochastic Optimal Control Theory: Applications to Finance and Insurance, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2017 (coadvisor; advisor: Assoc. Prof. Dr. Yeliz Yolcu-Okur).

- Betül Kalayci, Identification of Coupled Systems of Stochastic Differential Equations in Finance Including Investor Sentiment by Multivariate Adaptive Regression Splines, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, July 2017 (advisor).
- Emel Savku, Advances in Optimal Control of Markov Regime-Switching Models With Applications in Finance and Economics, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2017 (advisor).
- Hacer Öz Bakan, Runge-Kutta Scheme for Stochastic Optimal Control Problems, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2017 (advisor; coadvisor: Assist. Prof. Dr. Fikriye Yilmaz).
- Mehmet Fatih Karadeniz, Iterative Methods for Tomography Problems: Implementation to Cross-Well Tomography Problem, MSc. Term Project Report/Thesis in Scientific Computing, September 2017 (supervision until defence day).
- Alper Cevik, Computer-Aided Diagnosis of Alzheimer’s Disease and Mild Cognitive Impairment with MARS/CMARS Classification Using Structural MR Images, PhD. Thesis in Biomedical Engineering, Graduate School of Natural and Applied Sciences of METU, Ankara, September 2017 (coadvisor; advisor: Prof. Dr. Murat Eyüboğlu).
- Begzod Shakirov, Modeling Advanced Fund Transfer Pricing with an Application of Hull-White Interest-Rate Tree in Turkish Banking Sector, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2017 (advisor).
- Önder Nazim Onak, Adaptive Multivariate Solution Schemes for Inverse Electrocardiography Problem, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, September 2018 (coadvisor; advisor: Assoc. Prof. Dr. Yesim Serinagaoglu-Dogrusöz).
- Mohamad Theibech, Management Options for Nuclear Power Plants, MSc. Thesis in Cooperate Management, at Faculty of Engineering Management of Poznan University of Technology, Poznan, Poland, May 2019 (advisor).

My former diploma students *Dipl.-Math. Erik Kropat*, *Dipl.-Math. Andreas Rößler* (now: Dr.) and *Dipl.-Math. Markus Möller* (now: Dr.) became *doctoral students* at *Department of Mathematics of TU Darmstadt*, namely, as members of the working groups “Nonlinear Analysis – Dynamical Systems and Control“, “Stochastics and Operations Research“ and “Discrete Optimization“. Furthermore, my former thesis student from education *Petra Fakler* and my former student *Nicole Radde* (both from TU Darmstadt), my former diploma student *Dipl.-Math. Martin*

Lätsch (from TU Chemnitz) became *doctoral students* at *Institute of Mathematics* and *ZAIK, University of Cologne*, while my former diploma student *Dipl.-Math. Martin Friedemann* (from TU Chemnitz) became a doctoral student at *Institute for Mathematics* at *University of Clausthal-Zellerfeld*.

I am PhD. advisor of *MSc. Shiva Moslemi* from *Department of Industrial Engineering*, *Kharazmi University, Tehran, Iran*, and of *MSc. Erfan Babae Tirkolae* from *Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran*.

At *Department of Mathematics, METU*, I served to advice *PhD student BSc. Aysun Tezel* (in *semi-infinite optimization; coadvisor*), and *Dipl.-Math. Öznur Yasar* (in *discrete tomography; now she became PhD at Memorial University of Newfoundland, School of Graduate Studies*). For *Department of Biological Sciences, METU*, I coadvised of *PhD student MSc. Ceren Berkman* (*computational biology*). At *ZAIK and Mathematical Institute at University of Cologne*, I served in coadvising the two *doctoral students Dipl.-Math. Jutta Gebert* (now: Dr.) and *Dipl.-Phys. Nicole Radde* (now: Dr.) (both in *computational biology*).

Furthermore, at *Faculty of Mathematics at TU Chemnitz* I served at the beginning of the *doctor studies* of *Dipl.-Math. Michael Armbruster* (now: Dr.) (*line optimization in German railway traffic; in collaboration with company tlc, Frankfurt a. M.*). At *Faculty of Mathematics, TU Chemnitz*, at *Faculty of Mathematics and Sciences, TU Ilmenau*, at *Institute of Mathematics, University of Cologne*, and at *Department of Mathematics, METU*, I was member in the doctoral committees of *Dipl.-Math. M. Konik*, *Dipl.-Math. Abebe Geletu W. Selassie*, *Dipl.-Math. Karl Riedel*, *Dipl.-Math. Michael Kurth* and, at *IAM of METU*, of *MSc. A. Iscanoglu Cekic*, *MSc. Ö. Sezgin Alp*, *MSc. Irem Talasli*, *MSc. Aysun Türkvatan*, *MSc. Nurgül Gökğöz* and *MSc. Tugba Akman* (now all Dr.). At *METU, Ankara*, and *Koc University, Istanbul*, I have belonged to many *MSc. committees* and to the *PhD. committees*, namely, from *Department of Statistics of METU*: of *MSc. Sahar Qumsiyeh*, *MSc. Melih Agraz* and *MSc. Ceyda Yazici*, from *Department of Computer Engineering of METU*: of *MSc. Ö. Sinan Saraç* and of *MSc. Kircicegi Korkmaz* (now: Dr.), from *Department of Archeometry of METU* *MSc. Uftade Muskara* (now: Dr.), from *Department of Electrical and Electronics Engineering of METU*: of *Reyhan Zengin*, from *Geodetic and Geographic Information Technologies (GGIT; Graduate School) of METU*: of *Murat Durmaz* and *Abdurrahman Belismaila*, and from *Department of Mathematics*: of *MSc. Cemil Büyükdali* *MSc. Mehmet Turan*, *MSc. Hamdullah Yücel*, *MSc. Fikriye Yılmaz*, *Sevtap Özisik*, *MSc. Ali Hakan Tor* and *MSc. Zahir Seymen* (now: Dr.). I was a member of the *PhD Defence Committees* of *Mr. Luka Tomat* (now: Dr.) at *Department of Economics* at *University of Ljubljana (Slovenia)*, of *Mr. Gintautas Jakimauskas* (now: Dr.) in *Physical sciences, Informatics*, at *Vilnius University (Lithuania)*, of *Mr. Quoc Dong Vu* (now: Dr.) in *Informatics and Automation*, at *Ilmenau University of Technology (Germany)* - where I also was a member in the *Habilitation Committee* of *Dr. Abebe*

Geletu W. Selassie, of *Mrs. Eloisa Catarina Monteiro de Figueiredo Amaral e Macedo* (Department of Mathematics, University of Aveiro, Portugal), of *Mr. Burak Pac* (Department of Industrial Engineering, Bilkent University, Ankara, Turkey), of *Mr. Mustafa Kahraman* (Department of Software Education, Atilim, Ankara, Turkey) and of *Mr. Thomas Johannes Kellermann* (Faculty of Engineering, Stellenbosch University, South Africa). I have been a member of various other PhD juries, and I am external reviewer at Nanyang University, Singapore (in 2 PhD processes until now), Periyar University, Salem, India (in 2 PhD processes until now) and Vilnius University, Lithuania (in 1 PhD processes until now).

3.3 Activities as Examiner and Referee

After many assistancies in intermediate diploma, intermediate state examinations (after two years) or diploma examinations in 1988-1999, I became an own responsible *examiner* in **diplom examinations** and *state examinations* of students from mathematics and informatics (computer science). In this function, I worked during 1998-2004 in about 200 examinations.

Appointment: On 5.7.2000, *Hessian Ministry of Culture* gave me an appointment for becoming an *Examiner for Mathematics* in *Examination Division for Teaching in Secondary Schools of Scientific Office for Teaching at TU Darmstadt*.

Furthermore, since 1988 I was *referee* (e.g., by *referee reports*) for about 700 scientific works (articles, books). If being wished, I can send a list of journals for which I served as a referee.

Since 1999 I also write reports on scientific works for *Zentralblatt für Mathematik*, since 2001 for *Mathematical Reviews*.

For TU Chemnitz (Germany), University of Cologne (Germany), METU, Ankara (Turkey), Dicle University (Diyarbakır, Turkey), University of Duisburg-Essen (Germany), University of Ballarat (Australia), Nanyang Technological University (Singapore), Al-al Bayt University (Jordan) and Periyar University (Salem, India), I served with many reports (opinions) in hiring committees, in processes of promotion and PhD processes. Furthermore, I am an external reviewer at Nanyang Technological University, Singapore, an external reviewer of Research Grants Council, a member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan and Periyar University, Salem, India, an assessor with the Australian Research Council, reviewer for National Science Center (Narodowe Centrum Nauki - NCN), Poland, and reviewer for Luxembourg National Research Fund (FNR) (OPEN), and a reviewer for VQR 2911-2014 by the National Agency on the Evaluation of University and Research Systems in Italy.

3.4 Guests

Since 1993, a number of guests from different towns and countries accepted my invitations to give presentations at TH/TU Darmstadt, TU Chemnitz, University

of Cologne and METU Ankara (talks in working groups, seminars, colloquies and workshops) and to international workshops, conferences, symposia and summer institutes (cf. also: <http://europt.iam.metu.edu.tr/>, link: Scientific events).

3.5 Further Qualification, Didactical or Self Administration

- Participation in a university didactical working group in Department of Mathematics (TH Darmstadt, 1994-1996),
- Participation in *conception of habilitands' program "Studieren - Lernen - Forschen"* (TU Darmstadt, 1997),
- Information talks in "*Einführung ins Hauptstudium*" on the Hauptstudium offers of TH/TU Darmstadt in the field of analysis (1996-1999),
- Support of "*Orientierungswochen*" for study beginners at TH/TU Darmstadt, in particular, in Department of Mathematics (1994-1998),
- Member of "*Diplomprüfungskommission*" of Department of Mathematics at TH/TU Darmstadt (1995-2000),
- *Evaluation* (Lehrveranstaltungskritik) of my course *Analysis I* by students of Department of Mathematics at TU Darmstadt (SS 2000),
- Coworking in supervision of Mongolian guest scientists at TU Darmstadt (June/July 2000) and in the university celebration "*Athene feiert*" of TU Darmstadt (July 2000),
- *Evaluation* (Lehrveranstaltungskritik) of my course *Algorithmische Mathematik für Wirtschaftsinformatiker* by Institute of Applied Social Research at University of Cologne, by students of Mathematical Institute and by Department of Economy and Social Sciences (WS 2000/01),
- Member of Head Committee of Mathematical Institute and of Assembly of Faculty of Mathematics and Science of University of Cologne (WS 2000/01),
- Guest in Head Committee of Faculty of Mathematics at TU Chemnitz (SS 2001),
- *Evaluation* (Lehrveranstaltungskritik) of my mathematical courses and supervision at CUBIC (Cologne Bioinformatics Center), University of Cologne (2002 and 2003) and at IAM of METU, Ankara (since 2003),
- Co-applicant and participant at the international science and education project in optimization theory with *TÜBITAK (The Scientific and Technological Research Council of Turkey)*,

- Co-applicant and participant at the international science and education project in data mining in manufacturing and quality control with *TÜBİTAK (The Scientific and Technological Research Council of Turkey)*,
- “SIAM Activity Week“ on the theme of *Networks*, organized for and by students, and with Prof. Dr. Bülent Karasözen and Dr. Hakan Öktem (METU, Ankara, May 2004),
- Participation in deepening of collaboration between *Institute of Applied Mathematics, METU* with *Department of Industrial Engineering, METU, Institute of Informatics, METU, Department of Biology, METU, Department of Food Engineering, METU*, but also *Institute of Biotechnology* and other branches of *Ankara University*,
- Participation in deepening of collaboration between *METU* with *GATA (Turkish Medical School and Hospital of Armed Forces, Ankara, Turkey)*,
- “SIAM Activity Week“ on the theme of *Mathematics of the Brain*, organized for and with students (METU, Ankara, May 2007),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Department of Mathematics, University of L’Aquila, Italy*, in the framework of European Erasmus Mundus Programme MathMods ”Mathematical Modelling in Engineering” (2007-2008),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Department of Mathematics, Illinois State University, USA*, in Biomathematics (2007-2008),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Russian Academy of Sciences, Department of the Computational Methods of Forecasting, Moscow* (2008),
- Preparation of collaboration of IAM, METU, with *Department of Mathematics, Eindhoven University of Technology, The Netherlands* (from 2008 on);
- Preparation of collaboration of IAM, METU, with *Faculty of Mathematics and Economics, University of Ulm, Germany*, in the framework of Erasmus Program and Scientific Collaboration (from 2008 on);
- “SIAM Activity Week“: one seminar by Professor Alf Kimms and Supply Chain Management at IAM organized (METU, Ankara, May 2008);
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Max-Planck Society, Germany* (Ankara, November 2008 and May 2009);

- Involvement of IAM, METU, into the project of preparation and foundation of *Center of Research — Euro - Mediterranean — in Mathematics and Their Applications, CREMMA*, in Tunis, Tunisia;
- Preparation (continuation) of collaboration of IAM, METU, with University of Kaiserslautern, Germany (continuation of existing working plan; 2009);
- Preparation of collaboration of IAM, METU, with University of Zlin, Czech Republic (Erasmus) (2009);
- Preparation of collaboration of IAM, METU, with Institute of Mathematics and Informatics, Vilnius, Lithuania (Erasmus) (2009);
- Preparation of collaboration of IAM, METU, with Ort Braude College of Engineering, Karmiel, Israel (2009);
- Preparation of collaboration of IAM, METU, with Universität der Bundeswehr, Munich, Germany (2010);
- Preparation of collaboration of IAM, METU, with Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Sankt Augustin, near Bonn, Germany) (2008, 2010);
- Visit of some young Americans - Guidance and Presentation about METU and IAM given (2009);
- Collaboration in preparing Association of “Intellectual Systems in Aviation“ and member in the editorial board of magazine of “Intellectual Systems and Aviation Problems“ with National Academy of Aviation, Baku, Azerbaijan;
- Preparation of collaboration between METU and Universitas Sumatera Utara, Medan, Indonesia (2011);
- Member in Jury on Scholarships of DAAD (German Academical Exchange Service), Ankara, Turkey (December 2011).

4 List of Research Projects and Cooperations

The research projects and cooperations are basically represented in the *points 1-3 above*. In order to represent those of them which became projects in a more formal sense, I would like to state:

Projects with Companies:

with company *momatec* (Aachen; technology and service in traffic management) (two common projects under participation of DLR and ZAIK): 2000-2004,

with company *Transport-Informatik-Logistik-Consulting GmbH (tlc)* (Frankfurt a.M.; line optimization for trains) (one common project): 2002-2005,
 with the company *S.P.A.C. Ltd. Sti.* (Ankara; one common project on programs in statistics, especially, maximum-likelihood parameter estimation): 2005,
 with *IBM* (Research Centers in New York, Zurich and Haifa)
 (collaboration between IBM and IAM/METU: in preparation) and
 with the companies *Maximal Software* (London, GB, and New York, Arlington, USA), *gts systems & consulting* (Aachen, Germany) and *AIMMS* (Haarlem, The Netherlands, Kirkland, Washington, USA, and Singapore) and with *TÜBITAK* (The Scientific and Technological Research Council of Turkey) and *EOARD* (European Office of Aerospace Research & Development) (for preparation of scientific events).

Further Projects:

- *ESF project on Financial mathematics and risk management*; accepted in 2004 under the name AMaMeF: Advanced Mathematical Methods in Finance;
- *TÜBITAK* (Turkish Scientific and Technological Research Council) project on *Modern Methods in Continuous Optimization* (TÜBITAK: Turkish Research and Technology Council);
- *TÜBITAK* project on *Use and Development of Data Mining Methods for Quality Control in Manufacturing*;
- *Balaban Valley Project* - improvements of living conditions on Turkish rural countryside (scientific collaborator and supporter);
- *Kerkenes Village Project* - improvements of living conditions on Turkish rural countryside (scientific collaborator and representer);
- *Australian Leadership Program for Africa (ALPA)* (scientific collaborator and representer);
- *BAP Project* Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks (completed)
 (BAP: Research Fund for Scientific Collaboration in the Context of Post-Graduate Studies);
- *BAP Project* Boundary Element Formulation and Its Solution in Forward Problem of Electrocardiography by Using a Realistic Torso Model (completed);
- *BAP Project* Biological Data Mining and Classification: A Contribution of Statistical Learning and Continuous Optimization by Machine Learning and Semi-Infinite Programming (completed);

- *BAP Project* On an Inverse Problem Arising in Tomography of the Heart (completed);
- *BAP Project* A Classification Problem of Credit Risk Rating Investigated and Solved by New Methods of Statistical Learning and Optimization (completed);
- *BAP Project* Parameter Estimation for Actuarial Sciences and Financial Mathematics in Stochastic Differential Equations by Additive and Nonlinear Models and Continuous Optimization (completed);
- *BAP Project* Modern Mathematical Methods and Applications for Generalized Models in Statistics and Data Mining (completed);
- *BAP Project* Identification, Optimization and Control of Stochastic Differential Equations in Financial Mathematics (completed);
- *BAP Project* Mathematical Methods of Financial Risk Management Investigated and Solved by New Methods of Stochastic Calculus, Mathematical Statistics and Optimization (completed);
- *BAP Project* Advanced Mathematical Methods of Quality Analysis and Improvement by New Methods of Computational Statistics and Optimization with Applications in Manufacturing and Finance (completed);
- *BAP Project* Advanced Mathematical Methods of Early Warning Systems and Quality Control by New Methods of Data Mining, Stochastics and Optimization with Applications in Finance, Industry and the Environment (completed);
- *BAP Project* Unified and Hybrid Approaches to Identification, Optimization and Control of Stochastic Financial Processes Theory, Methods and Applications (BAP Project BAP- 07-05-2011-004) (completed);
- *BAP Project* Hisse Senetlerinin Fiyat Sürelerinin Kesirli Difüzyon Süreleri Kullanarak Parametre Tahminler (completed);
- *BAP Project* Unified and Hybrid Approaches to Identification, Optimization and Control of Stochastic Financial Processes Theory, Methods and Applications (2012; completed);
- *BAP Project* Stochastic Hybrid Systems of Financial and Economical Processes: Identified, Optimized and Controlled (2013; completed);
- *BAP Project* Identification, Optimization and Control of Stochastic Hybrid Systems with Jumps for Financial, Economical and Environmental Processes (2014; completed);
- *BAP Project* Stochastic Hybrid Systems with Jumps of Financial, Economic and Environmental Processes: Identification, Optimization and Optimal Control (2015; completed);
- *BAP Project* Financial, punctuated Stochastic Hybrid Systems of Economic and Environmental Processes: Definition, Optimization and Optimal

- Control (2016; completed);
- *BAP Project* Alternative modelling, parameter estimation and copulas in deterministic modelling of complex biological systems (2016; as a member; completed);
 - *BAP Project* Impulsive Stochastic Hybrid Systems for Financial, Economic and Scientific Processes: Optimal Control and Optimization (first half of 2017);
 - *BAP Project* Collection of data related to the cervical cancer, their analyses and modelings with its risk factors (in 2017; as a member);
 - *DOSAP Project* Statistical Learning Methods in Financial Mathematics (with Assist. Prof. Dr. Pakize Taylan and Prof. Dr. Bülent Karasözen) (completed)
(DOSAP: Exchange Program for Young Scientists in Turkey to study at more developed universities);
 - ESF Research Networking Programmes *Optimization with PDE Constraints*: member of the project; help in writing of the proposal;
 - international collaborator of *Eureka Ibero América*, Iberian-American Network of Knowledge Discovering, approved by Iberian American Program of Science and Technology for Development (CYTED);
 - member in DAAD (German Academic Exchange Program) Program in Optimization Theory between Department of Mathematics, Darmstadt University of Technology (Germany), and Institute of Applied Mathematics, METU, Ankara.
 - Project *Modelling of C. Acetobutylicum and Solvent Production in Fermentation Using Stochastic Power Law Logistic Model* at Universiti Teknologi Malaysia (UTM), Skudai, Malaysia;
 - Collaborator in *EU-FP7 Project* SysPatho - New Algorithms for Host-Pathogen Systems Biology;
 - Collaborator in *New Paradigms in Finance to Create Sustainable Solutions for the Economy, the Society, and the Environment* (European project);
 - TÜBİTAK (Turkish Scientific and Technological Research Council) project *Finansal Krizlerin Dinamiklerin Elipsoidal Analiz Ve Kümeleme Metodları Aracılığıyla Modellenmesi Ve Analizılması* (project coordinator);
 - EUROPT homepage and database hosted at IAM, METU;
 - Collaborator in Research Project on *Cutting Stock Problems*, University of Ljubljana, Slovenia;
 - Researcher in *CIMDA* (Centro de I&D em Matematica e Aplicacoes), University of Aveiro, Portugal;

- *Project with Company myGarantie International GmbH* (Basel, Switzerland);
- Project with Fraunhofer Institut “Algorithms and Scientific Computing“, St. Augustin, Bonn, Germany, on Computational Biology (in preparation);
- Scientific Advisor of the project *Hand Vein Biometric Person Identification* by ‘Prosoft-Biometrics’ Ltd., Ekaterinburg, Russia;
- Scientific supporter of Australian Leadership Program for Africa (ALPA);
- Peer reviewer for the evaluation of research products in the framework of the Italian Evaluation of Research Quality exercise (VQR 2004-2010).
- Advisor to TUBITAK 3001 Research Project *Financial modelling of day-ahead electricity prices: A case of Turkey*.
- Collaborator in the project proposal *Project proposal # 6166 — Development of information technologies for modeling, quantitative evaluation and forecasting the impact of the threats of conflicts and weapons proliferation on sustainable development of the society in regional and global contexts* to Science & Technology Center in Ukraine Headquarters, Kiev, Ukraine.
- Member of ICIE 2016 - PhD Award Referee Committee (Tehran, Iran; January 2016).
- Mentor in METU-AGEP Mentoring Program (Academic Development Program at METU; 2016).
- Successfully participated at a mandatory course on Health and Safety, METU (November-December 2016).
- Member of the ATC Erasmus+ program, *The acceleration method of development of transversal competences in the students’ practical training process* (until August 2018).

5 Presentations

5.1 Presentations and Stays at International Scientific Events

- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Utrecht, The Netherlands, March 1988.
- G.-W. Weber, “Workshop on Methods of Topology and Nonsmooth Analysis in Optimization Theory”, Karlsruhe, Germany, June/July 1988.
- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Diepenbeek, Belgium, September 1988.
- G.-W. Weber, “Aachen Maastricht Day of Mathematics”, Maastricht, The Netherlands, January 1989.

- G.-W. Weber, “Aachen Maastricht Day of Mathematics”, Aachen, Germany, June 1989.
- G.-W. Weber, “Aachen Maastricht Day der Mathematics”, Maastricht, The Netherlands, October 1989.
- G.-W. Weber, Nonlinear optimization: Characterization of Structural Stability, “2^d International Conference on Parametric Optimization and Related Topics”, Sellin (Rügen island), Germany, April 1990.
- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Aachen, Germany, June 1990.
- G.-W. Weber, Research visit in Vienna: visit of Dr. J.-J. Rückmann at “International Institute for Applied Systems Analysis”, Vienna, September 1990.
- G.-W. Weber, Summer school “Modern Methods of Optimization”, Thurnau, Franconia, Germany, October 1990.
- G.-W. Weber, Nonlinear Optimization: Characterization of Structural Stability, the Sufficiency Part, “XV. International Conference on Mathematical Optimization - Theory and Applications”, Eisenach (Germany) (with Prof. Dr. H. Th. Jongen), Dezember 1990.
- G.-W. Weber, On Semi-Infinite Optimization, “Aachen Maastricht Day of Mathematics”, Aachen, June 1991.
- G.-W. Weber, Semi-Infinite Optimization: Towards a characterization of structural stability, Symposium “EURO VI (11th European Congress on Operational Research)”, Aachen, Germany, July 1991; helper at that conference.
- G.-W. Weber, On Structural Stability in Semi-Infinite Optimization, “3^d International Conference on Parametric Optimization and Related Topics” in Güstrow (Mecklenburg country), Germany, August 1991.
- G.-W. Weber, On the Feasible Set in Semi-Infinite Optimization, Conference, “Real and Complex Analysis”, Aachen, October 1991.
- G.-W. Weber, “Day of Dynamical Systeme” (Dynamical Systems Group; Benelux countries, France, Germany), Aachen, Germany, December 1991.
- G.-W. Weber, Minimization of a Max-Type Function: Characterization of Structural Stability, Conference “Parametric Optimization and Complexity”, Lambrecht (Pfalz country), Germany, June 1992.
- G.-W. Weber, Nonlinear Optimization: Some Aspects of Stability, “24th Conference on Mathematical Programming, 9th Joint Conference on Mathematical Methods in Economics”, Loučná, ČSFR, September 1992.
- G.-W. Weber, “Aachen Maastricht Day of Mathematics” in Aachen, Germany, December 1992.
- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group;

- Benelux countries, France, Germany), Aachen, Germany, December 1992.
- G.-W. Weber, On Structural Stability and an Index in Nonlinear Control Theory, “7th French-German Conference on Optimization”, Dijon, France; June 1994.
 - G.-W. Weber, Nonlinear Control Theory: Structural Stability and its Characterization, “15th Symposium in Mathematical Programming”, Ann Arbor, USA); Chairman of a session.
 - G.-W. Weber, On Structural Stability in Nonlinear Optimization and Control, “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR in Berlin, Germany, August-September 1994,
 - G.-W. Weber, On Global Stability in Optimization and Optimal Control, “Colloquium Carolus Magnus - Mathematisch-Kulturgeschichtliches Colloquium” in Aachen, Germany, March 1995.
 - G.-W. Weber, Nonlinear Optimization and Optimal Control: Genericity and Gaps, “4th International Conference on Parametric Optimization and Related Topics”, Enschede, The Netherlands, June 1995.
 - G.-W. Weber, On the Topological Connection between Optimization over \mathbb{R}^n and Optimal Control, “AMS–SIAM Summer Seminar in Applied Mathematics - Mathematics of Numerical Analysis: Real Number Algorithms”, Park City, USA, July 1995.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization: Some Foundations and Iteration Procedures “8th French-German Conference on Optimization”, Trier, Germany, July 1996.
 - G.-W. Weber, Generalized Semi-Infinite Optimization: On Foundations, Iteration Procedures and Relations to Optimal Control, “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR, Braunschweig, Germany, Germany, September 1996.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization, Optimal Control and Their Relations, Annual Meeting 1996 of German Mathematical Society (DMV), Jena, Germany, September 1996.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization: Some Aspects of Structure, Optimality and Iteration Procedures, “International Workshop on Semi-Infinite Programming”, Cottbus, Germany, September 1996.
 - G.-W. Weber, On Aspects of Structure and Stability in Optimal Control Theory, “12th Conference on Variational Calculus, Optimal Control and Applications”, Trassenheide (Usedom island), Germany, September 1996.
 - G.-W. Weber, On Some Iteration Procedures in Generalized Semi-Infinite Optimization, “International Conference on Optimization and Optimal Control”, Lambrecht (Pfalz country), Germany, February 1997; Chairman of a session.

- G.-W. Weber, Von der Kurvendiskussion über die Topologie zur Optimierung, “Workshop Analysis” in Darmstadt, Germany, April 1997.
- G.-W. Weber, Wie kann man für eine sehr allgemeine Klasse von Optimierungsproblemen zu Iterationsverfahren gelangen?, “Workshop Analysis”, Darmstadt, Germany, May 1997; Organizer of the workshop.
- G.-W. Weber, Zum Problemkreis Mittag-Leffler in der Funktionentheorie, “Workshop Analysis” in Darmstadt, Germany, June 1997; Organizer of the workshop.
- G.-W. Weber, Generalized Semi-infinite Optimization: On Foundations and Iteration Procedures (with Dr. St. Pickl), “16th International Symposium on Mathematical Programming”, Lausanne, Switzerland, August 1997.
- G.-W. Weber, Generalized Semi-infinite Optimization: On Foundations and Practical Aspects, “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR, Jena, Germany, September 1997.
- G.-W. Weber, Generalized Semi-Infinite Optimization: On Theoretical and Practical Aspects, “5th International Conference on Parametric Optimization and Related Topics”, Tokyo, Japan, October 1997.
- G.-W. Weber, On Stability Aspects in Nonlinear and in Discrete Optimization, “9th Belgian-French-German Conference on Optimization”, Namur, Belgium, September 1998; Chairman of a session.
- G.-W. Weber, On Similarity, Analogy and Symmetry in Generalized Semi-Infinite Optimization, Optimal Control and Discrete Optimization, “International Workshop on Similarity Methods” (organized by Institute for Statics and Dynamics of Aerospace Structures, University of Stuttgart), Stuttgart, Germany, November 1998.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und ihre Anwendung in Kontrolltheorie und diskreter Optimierung, Conference “Mathematische Modellierung und Optimierung” in Darmstadt, Germany, July 1999; Organizer of the workshop (with Dr. St. Pickl).
- G.-W. Weber, Theoretical and practical relations between discrete optimization, nonlinear optimization and control (with Dr. St. Pickl) “Symposium on Operations Research”, Magdeburg, Germany, September 1999.
- G.-W. Weber, Semi-Infinite Optimization and Optimal Control: Iterative Procedures and Global Stability, “Symposium on Operations Research”, Magdeburg, Germany, September 1999.
- G.-W. Weber, Global Stability and Algorithms in Optimal Control and Nonlinear Optimization, “8th International Symposium on Computational Fluid Dynamics”, Bremen, Germany, September 1999.
- G.-W. Weber, Global Stability and Iteration Procedures in Nonlinear Optimization and Optimal Control, “Workshop on Semi-Infinite Programming

- and Related Topics”, Alicante Spain, September 1999.
- G.-W. Weber, Workshop “A³DiM³O 2000” of Graduate Programs *Algorithmische Diskrete Mathematik (Berlin)*, *Angewandte Algorithmische Mathematik (Munich)*, *Mathematische Optimierung (Trier)*, Munich, Germany, March 2000.
 - G.-W. Weber, Semi-Infinite Optimization, Optimal Control and Some Relations with Interior Point Methods, “2nd Workshop on Interior Point Methods IPM–2000”, in Budapest, Hungary, July 2000.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization, Symposium “EURO XVII (17th European Conference on Operational Research)”, Budapest, Hungary, July 2000; Chairman of a session.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization: Relations to Discrete Structures and Optimal Control, “17th International Symposium on Mathematical Programming”, Atlanta, USA, August 2000.
 - G.-W. Weber, Generalized Semi-Infinite Optimization: Continuous and Discrete, Plenary Lecture, “French-German-Italian Conference on Optimization”, Montpellier, France, September 2000.
 - G.-W. Weber, Some Foundations and Applications of Generalized Semi-Infinite Optimization, “Symposium on Operations Research OR 2000” - Annual Meeting of GOR in Dresden, September 2000; Chairman of two sessions.
 - G.-W. Weber, Generalized Semi-Infinite Optimization: Relations with Optimal Control and Discrete Optimization, Invited Survey Lecture, Annual Meeting 2000 of DMV in Dresden, Germany, September 2000.
 - G.-W. Weber, On Theoretical and Algorithmic Relations between Discrete and Nonlinear Optimization, Annual Meeting 2000 of DMV in Dresden, Germany, September 2000.
 - G.-W. Weber, “Symposium on Discrete Mathematics 2000”, Munich, Germany, October 2000.
 - G.-W. Weber, On Generalized Semi-Infinite Optimization, Colloquy “Discrete Optimization - Structure and Stability of Dynamical Systems”, Cologne, Germany, October 2000; *Chairman* of a session.
 - G.-W. Weber, “3rd International Workshop on Similarity Methods” (organized by Institute for Statics and Dynamics of Aerospace Structures, University of Stuttgart), Stuttgart, Germany, November 2000.
 - G.-W. Weber, Approaches to Mechanics from Discrete and Nonlinear Optimization and Control, GAMM workshop “Discrete Modelling and Discrete Algorithms in Continuum Mechanics”, in Braunschweig, Germany, November 2000; Chairman of a session.
 - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, Workshop “The Mathematics of Discrete Tomography” in Ober-

- wolfach, Germany, December 2000.
- G.-W. Weber, Optimal Control - Theory and Methods from Production and Traffic (held twice), “EURO 2001 - The European Operational Research Conference”, Rotterdam, The Netherlands, July 2001; *Chairman* of a session; conference supported by EUROPT.
 - G.-W. Weber, Wavelet Analysis of Discrete Data in Traffic Regulation, Workshop on “Theory and Applications of Smooth and Nonsmooth Optimization” (with Dr. H. Kirschfink and Dr. M. Konik), Rotterdam, The Netherlands, July 2001; member of Organizing Committee.
 - G.-W. Weber, On Earth Warming System Analysis - the TEM-model and the Optimal Control Problem of Heating (with Dr. St. Pickl), “20th IFIP TC7 Conference on System Modelling and Optimization”, Trier, Germany, July 2001; Chairman of a session.
 - G.-W. Weber, Impulses from Results of Inverse Problems, “Symposium on Operations Research - OR2001”, Annual Meeting (Jahrestagung) of GOR, Duisburg, Germany, September 2001; Chairman of a session.
 - G.-W. Weber, Optimal Control of Heating Processes - with Special Emphasis on Earth Warming, “Symposium on Operations Research - OR2001”, Annual Meeting (Jahrestagung) of GOR, Duisburg, Germany, September 2001.
 - G.-W. Weber, 12th joint Czech-German-Slovak Conference “Mathematical Methods in Economy and Industry”, Arnstadt, Thuringia, Germany; coauthor of one presentation, July 2002.
 - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, Invited Presentation, International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education”, Alma Ata, Kazakhstan, September 2002.
 - G.-W. Weber, “European Conference on Computational Biology”, Saarbrücken, Germany, October 2002.
 - G.-W. Weber, Algorithmic Analysis of Gene Expression Data Problems to Discrete Tomography, “Similarity Methods 2002”, Stuttgart, Germany, November 2002.
 - G.-W. Weber, Towards DNA Chip Analysis and Discrete Tomography by Inverse Problems and Optimization, “4th IMACS Symposium on Mathematical Modelling”, Vienna, Austria, February 2003.
 - G.-W. Weber, 13th GOR-Workshop “Entscheidungstheorie und -praxis” 2003, Bad Honnef, Germany, February 2003; Chairman of a session.
 - J. Gebert, S.W. Pickl, N. Shokina, G.-W. Weber and R. Wünschiers, Mathematical Modeling and Discrete Approximation in Evaluation and Forecasting of Expression-Data, Scientific Program of the *2nd Cologne Twente Workshop on Graphs and Combinatorial Optimization*, 2003.

- G.-W. Weber, Various Coauthorships with talks of Prof. Dr. H. Th. Jongen, Dr. St. Pickl, Dr. R. Wünschiers, Dipl.-Math. J. Gebert, M. Lätsch and D. Akume, 1988-2003.
- G.-W. Weber, J. Gebert, M. Lätsch, S.W. Pickl and R. Wünschiers, Towards DNA Chip Analysis and Discrete Tomography by Reverse Problems and Optimization, *4th MATHMOD Vienna - Fourth International Symposium on Mathematical Modelling*, Vienna, February 2003.
- G.-W. Weber, New Projects at the Institute of Applied Mathematics, Workshop on Advances in Continuous Optimization, Istanbul, Turkey, July 4-5, 2003; Chairman of a session.
- G.-W. Weber, Modelling and Prediction of Gene-Patterns, EURO/INFORMS, Joint International Meeting, Istanbul, Turkey, July 6-10, 2003; support of conference by EUROPT.
- G.-W. Weber, On Connections between Semi-Infinite Optimization and Optimal Control, EURO/INFORMS, Joint International Meeting, Istanbul, Turkey, July 6-10, 2003; support of conference by EUROPT.
- G.-W. Weber, Continuous Optimization in Modelling and Prediction of Gene-Patterns, EURO Summer Institute - ESI XXI - Stochastic and Heuristic Methods in Optimization, Invited Presentation, Lithuania, Neringa, July 25 - August 7, 2003; Chairman of a session.
- G.-W. Weber, Connections between Semi-Infinite Optimization and Optimal Control, and Modern Applications, EURO Summer Institute - ESI XXI - Stochastic and Heuristic Methods in Optimization, Invited Presentation, Lithuania, Neringa, July 25 - August 7, 2003; Chairman of a session.
- G.-W. Weber, Modelling, Optimization and Dynamics of Gene-Patterns, Invited Presentation, Summer School “Advanced Mathematical Methods in Engineering”, Çeşme, Turkey, August, 2003.
- G.-W. Weber, Dynamics and Control of Earth Warming, Invited Presentation, Summerschool “Advanced Mathematical Methods in Engineering”, Çeşme, Turkey, August, 2003.
- G.-W. Weber, Various Projects on Applied Mathematics at Institute of Applied Mathematics of METU, Annual Meeting of Mathematical Society, Invited Presentation, Van, Turkey, September 2003.
- G.-W. Weber, S.W. Pickl, B. Karasözen and H. Körezlioğlu, Optimization of Financial Processes and Investments in CO₂-Emission Reduction, METU Conference VII in Economics, Ankara, September 5-9, 2003.
- G.-W. Weber, Projects in Computational Biology at IAM of METU, Biyotip Meeting at METU, Ankara, Turkey, January 2004.
- G.-W. Weber and T. Ergenç, Structure, Stability and Application of Generalized Semi-Infinite Optimization, Workshop on Challenges of Continuous

- Optimization in Theory and Applications, Rhodes, Greece, July 2-3, 2004; member of Organizing Committee and Chairman of a session.
- G.-W. Weber, M.U. Akhmet, H. Öktem, F.B. Yılmaz, S.W. Pickl and Ö. Uğur, Optimization and Stability of Gene-Expression Patterns and Their Networks, EURO XX Conference, Rhodes, Greece, July 4-7, 2004; support of conference by EUROPT via me.
 - G.-W. Weber, B. Karasözen and A. Tezel, Generalized Semi-Infinite Optimization and Anticipatory Systems, EURO XX Conference, Rhodes, Greece, July 4-7, 2004; support of conference by EUROPT via me.
 - D. Lozuvanu, S.W. Pickl and G.-W. Weber, Optimization, Monotonicity and the Determination of Nash Equilibria, Invited Paper, Computing Anticipatory Systems: CASYS'03 - Sixth International, August 2004; member of International Program Committee, Chairman of a session.
 - J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, Genetic Networks and Anticipation of Gene Expression Patterns, invited paper, Computing Anticipatory Systems: CASYS'03 - Sixth International, August 2004; member of International Program Committee, Chairman of a session.
 - F.B. Yılmaz, H. Öktem and G.-W. Weber, Mathematical Modeling and Approximation of Gene Expression Patterns and Gene Networks, International Conference on Operations Research, Tilburg, The Netherlands, September 2004.
 - G.-W. Weber, M.U. Akhmet, H. Öktem, Ö. Yaşar, F.B. Yılmaz and S.W. Pickl, Algorithmic Computational Biology: Optimization and Stability of Gene-Expression Patterns and Their Networks, Invited Lecture, International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan, October 6-10, 2004.
 - G.-W. Weber, Challenges in the Optimization of Bio-Systems, Gemeinsamer GOR-Workshop der Arbeitsgruppen "OR im Umweltschutz" und "Optimierung von Biosystemen": Environmental Management und komplexe Biosysteme, invited talk, Universität Siegen, March 10-11, 2005.
 - G.-W. Weber, E. Dağlı, M. Taştan and O. Özgür, PASCAL Tutorial and Workshop Machine Learning, Support Vector Machines, and Large-Scale Optimization, Wissenschaftszentrum Schloss Thurnau, Germany, March 16-18, 2005.
 - G.-W. Weber and S.W. Pickl, On Optimal Control of Heating Processes, SIAM Conference on Optimization, Stockholm, Sweden, May 15-19, 2005; conference supported by EUROPT via me.
 - G.-W. Weber, Challenges in the Optimization of Bio-Systems in Nature, Industry and Society, 17 EURO Mini Conference "Continuous Optimization in the Industry", Pécs, Hungary, June 29 - July 1, 2005; member of Organizing Committee, Chairman of a session.

- G.-W. Weber, 5 Years EUROPT - Happy Birthday!, 17 EURO Mini Conference “Continuous Optimization in the Industry”, Pécs, Hungary, June 29 - July 1, 2005; member of Organizing Committee, Chairman of a session.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Invited Talk, SSIP 2005, 13th Summer School on Image Processing, Szeged, Hungary, June 30 - July 8, 2005.
- G.-W. Weber, M.U. Akhmet, H. Öktem, S.Z. Alparslan, A. Tezel and S.W. Pickl, An Anticipatory Extension of Malthusian Model, invited paper, CASYS’05, Seventh International Conference on Computing Anticipatory Systems, Liege, Belgium, August 8-13, 2005; member of International Program Committee.
- G.-W. Weber, A. Kuba and Ö. Yaşar, Discrete Tomography: a Joint Contribution by Optimization, Equivariance Analysis and Learning, invited paper, CASYS’05, Seventh International Conference on Computing Anticipatory Systems, Liege, Belgium, August 8-13, 2005; member of International Program Committee.
- S. Özögür, A.G. Sagdıçoğlu Celep, B. Karasözen, N. Yıldırım and G.-W. Weber, Dynamical modelling of enzymatic reactions, simulation and parameter estimation with genetic algorithms, *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- E.M.P. Quek, G.-W. Weber and R. Sambanthamurthi, Determination of Control Structure in Lipid Biosynthesis Pathways, in: *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- M. Tastan, T. Ergenc, S.W. Pickl and G.-W. Weber, Stability Analysis of Gene Expression Patterns by Dynamical Systems and a Combinatorial Algorithm, *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- G.-W. Weber and A. Tezel, Generalized Semi-Infinite Optimization and Anticipatory Systems, International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
- G.-W. Weber, M.U. Akhmet and S.W. Pickl, Challenges in the Optimization of Bio-Systems, International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
- G.-W. Weber, M.U. Akhmet, H. Öktem and S.W. Pickl, Anticipatory Extensions of Malthusian Model, International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
- G.-W. Weber, A. Kuba, Ö. Yaşar, E. Dağlı and O. Özgür, Discrete Tomography: New Approaches and Results by Optimization Theory and Statistical

Learning, ISPRS 2005, Spatial Data Mining Workshop, METU, Ankara, Turkey, November 24-25, 2005.

- P. Taylan and G.-W. Weber, New approaches to regression in financial mathematics by generalized additive models, First Conference of Advanced Mathematical Methods for Finance, April 29, 2006, Side, Antalya, Turkey; member of Organizing Committee, Chairman of a session.
- G.-W. Weber, Z. Alparslan, B. Karasözen, H. Körezlioğlu, S.W. Pickl and Ö. Uğur, On energy management and sustainable development, First Conference of Advanced Mathematical Methods for Finance, April 29, 2006, Side, Antalya, Turkey.
- G.-W. Weber, Visit of University of Copenhagen, Denmark, May 2006.
- G.-W. Weber, Visit of University of Iceland, Reykjavik, May 2006.
- G.-W. Weber and A. Tezel, On generalized semi-infinite optimization of genetic networks, 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006; member of Organizing Committee, Chairman of a session.
- G.-W. Weber and A. Tezel, 6 Years EUROPT, 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006; member of Organizing Committee, Chairman of a session.
- G.-W. Weber, A Dynamical Optimization and Algorithmic Approach to Analyze Gene-Environment Networks, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, Plenary Chair, Stream Organizer, Session Organizer.
- P. Taylan and G.-W. Weber, New Approaches to Regression in Financial Mathematics by Generalized Additive Models (Conic Quadratic Programming), EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, Plenary Chair, Stream Organizer, Session Organizer.
- S. Özögür, G.-W. Weber and J. Shawe-Taylor, Biological Data Mining by using SVM and Pattern Analysis, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- A. Gökmen, G.-W. Weber, D. DeTombe and I. Gökmen, Improving Sustainable Living in Rural Areas in Turkey, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- B. Akteke-Öztürk and G.-W. Weber, Semidefinite Programming Approach for Support Vector Clustering, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- R. Ak and G.-W. Weber, A new approach credit rating with Hidden Markov Model about Turkish economy, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- M. Türkay and G.-W. Weber, Foundation Meeting of EURO WG “OR in

- Computational Biology and Bioinformatics”, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- L. White, G.-W. Weber and M. Shutler, Foundation Meeting of EURO WG “OR for Development”, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
 - A. Gökmen, I. Gökmen, G.-W. Weber and D. DeTombe, Discussion Presentation: Improving Sustainable Living in Rural Areas in Turkey, at: EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
 - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Discrete Tomography: a Joint Contribution by Optimization Theory, Equivariance Analysis and Statistical Learning, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
 - G.-W. Weber, Ö. Uğur, A. Tezel and T. Ergenç, On Generalized Semi-Infinite Optimization of Genetic Networks, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
 - S.Z. Alparslan, B. Karasözen, H. Körezlioğlu, Ö. Uğur, G.-W. Weber and S.W. Pickl, On Energy Management and Sustainable Development, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
 - M.U. Akhmet, H. Öktem, G.-W. Weber and S.W. Pickl, An Anticipatory Extension of Malthusian model, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
 - G.-W. Weber, 6 years EUROPT - Foundation EURO ORD - Foundation EURO CBBM, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
 - G.-W. Weber, Ö. Uğur, A. Tezel and T. Ergenç, On Discrete-Continuous and Generalized Semi-Infinite Optimization of Genetic Networks, GO V Meeting, Leukerbad, Switzerland, August 20-24, 2006.
 - G.-W. Weber, Ö. Uğur, A. Tezel, A. Soyler and M. Çetin, On Discrete-Continuous Modeling and Generalized Semi-Infinite Optimization of Gene-Environment Networks, Workshop on Networks in Computational Biology, IAM, METU, Ankara, Turkey, August 20-24, 2006, member of Organizing Committee, Chairman of a session.
 - G.-W. Weber, Condolence Speech in Honour of Prof. Dr. Alexander Rubinov, Memorial Service, 5th Ballarat Workshop on Global and Nonsmooth Optimization: Theory, Methods and Applications, Ballarat, Australia, November

28-30, 2006.

- G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür, P. Taylan and A. Tezel, Generalized Semi-Infinite Optimization for Modeling, Dynamics and Prediction of Gene-Environment Networks, Invited Talk, 5th Ballarat Workshop on Global and Nonsmooth Optimization: Theory, Methods and Applications, Ballarat, Australia, November 28-30, 2006.
- F. Vural-Yarman, G.-W. Weber et al., Visit and Stay at Süleyman Demirel University, Isparta, Turkey, in the framework of ÖYP program on preparation of PhD Students in METU, Ankara, February 2007.
- G.-W. Weber, Visit of University of Economics, Prague, Czech Republic, April 2007.
- G.-W. Weber, Visit of Charles University, Prague, Czech Republic, April 2007.
- G.-W. Weber, S.Z. Alparslan Gök and M.U. Akhmet, A New Mathematical Approach in Environmental Protection: Gene-Environment Networks and Their Dynamics, speaker: S. Pickl, 1st Canadian Discrete and Algorithmic Mathematics Conference, May 28-31, 2007, CanaDAM 2007, Banff, Canada, May 28-31, 2007.
- M. Taştan, Ö. Çelik, G.-W. Weber, F. Korkusuz and B. Karasözen, New Approaches in Mathematical Modeling of Proximal Femur Geometry and Bone Mineral Density, International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT, Antalya, Turkey, April 30 - May 2, 2007; Member of Advisory Board, Chairman of a Session.
- G.-W. Weber and Ö. Uğur, Optimizing Gene-Environment Networks: Generalized Semi-Infinite Programming Approach With Intervals, International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT, Antalya, Turkey, April 30 - May 2, 2007; member of Advisory Board, Chairman of a session.
- B. Akteke-Öztürk, G.-W. Weber and S. Kayalğil, Kalite iyilestirmede veri kümeleme: döktüm endüstrisinde bir uygulama, Yoneylem Arastirmasi ve Endüstri Muhendisligi, 27. Ulusal Kongresi (27th Annual Conference of the Turkish OR Society), YA/EM 2007, July 2-4, 2007, Izmir, Turkey.
- G.-W. Weber, A. Tezel, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür and P. Taylan, Optimization, Dynamics and Prediction of Gene-Environment Networks — Elements of Finance and Development Included, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, EUROPT and SIAM Representative, Chairman of session.
- G.-W. Weber, Professor Georg Still - EUROPT Fellow, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, etc. (cf. above).

- G.-W. Weber, 7 Years EUROPT - EURO Working Group on Continuous Optimization, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, etc. (cf. above).
- I. Gökmen, A. Gökmen, H. Önder, H. Tuydes and G.-W. Weber, Sustainable Living in Balaban Valley, Workshop on Sustainable Living at Turkish Rural Countryside, METU, Ankara, June 8, 2007; member of Organizing Committee and Chairman of a session.
- G.-W. Weber, P. Taylan, S.Z. Alparslan Gök, B. Akteke Öztürk, S. Özöğür, Ö. Uğur and A. Tezel, A New Mathematical Approach in Environmental Protection: Gene-Environment Networks and Their Dynamics, EURO WG CBBM Workshop, Prague, July 8, 2007; member of Organizing Committee, Chairman of a session.
- A. Gökmen, I. Gökmen, H. Önder and G.-W. Weber, Sustainable Living in Balaban Valley, Invited Talk, EURO-ORD Workshop “Workshop on OR for Developing Countries Young Researchers and PhD Symposium”, Prague, Czech Republic, July 7, 2007; member of Organizing Committee.
- F. Summers, S.T. Elias-Özkan and G.-W. Weber, Kerkenes Team: A Short Presentation and Demonstration on the Kerkenes Eco-Center Project Activities, EURO-ORD Workshop “Workshop on OR for Developing Countries Young Researchers and PhD Symposium”, Prague, Czech Republic July 7, 2007; member of Organizing Committee, Chairman of a session.
- P. Taylan and G.-W. Weber, Regression in Financial Mathematics by Additive Models and Continuous Optimization, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, (several times) Stream Organizer, Session Organizer and Chairman.
- Ö. Uğur and G.-W. Weber, A Mathematical Tutorial: Dynamics and Prediction in Gene-Environment and Financial Networks with the Help of Optimization, Tutorial, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- B. Akteke-Öztürk and G.-W. Weber, Data Mining for Quality Improvement Data with Nonsmooth Optimization vs. PAM and k-Means, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- G.-W. Weber, P. Taylan, S.Z. Alparslan-Gök, B. Akteke-Öztürk, S. Özöğür, A. Tezel and S.W. Pickl, Dynamics, Stability and Control in Environmental and Biological Dynamics, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- S.Z. Alparslan, S. Tijs, B. Karasözen, G.-W. Weber and S. Miquel, Cooperation under Interval Uncertainty, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- Z. Volkovich, Z. Barzily, B. Akteke-Öztürk and G.-W. Weber, Cluster Stabili-

- ty Using Minimal Spanning Trees, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- G.-W. Weber, Prof. Dr. Alexander Rubinov, EUROPT Fellow 2006: One of the Architects in “OR Creates Bridges”, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
 - P. Taylan, G.-W. Weber and N.-N. Urgan, Approximation of Stochastic Differential Equations by Additive Models Using Splines and Conic Programming, Invited Paper, CASYS'07, Eighth International Conference on Computing Anticipatory Systems, Liege, Belgium, August 6-11, 2007 (speaker: S.W. Pickl); member of International Program Committee.
 - G.-W. Weber and P. Taylan, Regression in Financial Mathematics by Additive Models and Continuous Optimization, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
 - B. Akteke-Öztürk and G.-W. Weber, Data Mining for Quality Improvement Data with Nonsmooth Optimization vs. PAM and k-Means, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
 - G. Köksal, S. Kayaligil and G.-W. Weber, Data Mining in Quality Improvement, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
 - F. Summers, S.T. Elias-Özkan and G.-W. Weber, Kerkenes Team: a Short Presentation and Demonstration on the Kerkenes Eco-Center Project Activities, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
 - G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, S. Özögür, P. Taylan, A. Tezel and Ö. Uğur, Inverse Problems in Gene-Environment Networks, 6th ISAAC Congress, METU, Ankara, August 13-18, 2007.
 - B. Akteke-Öztürk and G.-W. Weber, Data Mining: Clustering - The Use of Optimization Theory, Graduate Summer School on New Advances in Statistics, Invited Lecture, METU, August 11-24, 2007.
 - S. Özögür and G.-W. Weber, Data Mining: Classification - The Example of Support Vector Machines, Invited Lecture, Graduate Summer School on New Advances in Statistics, METU, August 11-24, 2007.
 - P. Taylan and G.-W. Weber, Data Mining: Regression - The Example of Spline Regression and MARS, Graduate Summer School on New Advances in Statistics, Invited Lecture, METU, August 11-24, 2007.
 - A. Işcanoğlu, G.-W. Weber and P. Taylan, Predicting Default Probabilities with Generalized Additive Models for Emerging Markets, Graduate Summer

School on New Advances in Statistics, METU, August 11-24, 2007 (Invited Lecture).

- G.-W. Weber, B. Akteke-Öztürk, P. Taylan, S. Özögür Akyüz, S.Z. Alparslan-Gök, Optimization and Dynamics of Gene-Environment Networks, Operations Research 2007, Saarbrücken, September 5-7, 2007; Chairman of a session.
- A. Gökmen, I. Gökmen, G.-W. Weber and D. Dinçel, Güneşköy 2007, Video Conference on Complex Societal Problems, METU, Ankara, and University of Amsterdam, December 11, 2007.
- G.-W. Weber, Workshop in Memory of Professor Hayri Hayri Körezlioğlu (1930 — 2007), Speech at the Opening Session, Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu, METU, Ankara, April 25-26, 2008; member of Organizing Committee, Chair of OC, member of Program Committee; Chairman of a session.
- G.-W. Weber, P. Taylan, E. Kropat and Z.-K. Görgülü, Approximation of Stochastic Differential Equations by Additive Models Using Regression, Splines and Conic Programming, Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu, METU, Ankara, April 25-26, 2008.
- G.-W. Weber, S.Z. Alparslan-Gök, D. DeTombe, H. Önder, E. Kropat and Z.-K. Görgülü, Applied Mathematics Used in Complex Societal Problems, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008; member of Organizing Committee, member of Program Committee, Chair; Chairman of a session.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür Akyüz, E. Kropat, Z.-K. Görgülü and D. DeTombe, Data Mining Used in Complex Societal Problems, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
- G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Gene-Environment Networks — the Financial Aspect Included, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
- G.-W. Weber, Short Presentation: Indonesian Oil — Native Owned and Producing Oil Wells on the Island of Java, near CEPU, based on a presentation of Allen Johnson, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
- F. Summers, S.T. Elias-Ozkan and G.-W. Weber, Community Participation in Kerkenes, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
- G.-W. Weber, E. Kropat and S.Z. Alparslan Gök, Semi-Infinite and Conic

- Optimization in Modern Human, Life and Financial Sciences under Uncertainty, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008; member of Organizing Committee; Co-Chair of OC; Chairman of a session.
- Z. Barzily, Z.V. Volkovich, B. Akteke-Öztürk and G.-W. Weber, Cluster Stability Using Minimal Spanning Trees, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - S. Özögür and G.-W. Weber, Learning with Infinitely many Kernels via Semi-Infinite Programming, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - P. Taylan, G.-W. Weber and F. Yerlikaya, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - B. Akteke-Öztürk, G.-W. Weber and E. Kropat, Continuous Optimization Approaches for Minimum Sum of Squares, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - G.-W. Weber, Professor Kees Roos - EUROPT Fellow 2008, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
 - M. Kahraman, H. Öktem, G.-W. Weber and M.U. Akhmet, Using Piecewise Linear Systems with Delay to Grab the Functional Dynamics in Biological Systems, International Symposium on Health Informatics and Bioinformatics, Turkey'08, Istanbul, Turkey, May 18-20, 2008.
 - F. Yerikaya, G.-W. Weber, P. Taylan, I. Batmaz and G. Köksal, MARS algoritmasında Tikhonov düzenlemesi ve çok amaçlı optimizasyon kullanımı, Operational Research and Industrial Engineering Annual Conference (YA/EM'08), Galatasaray University, Istanbul, Turkey, June 30 - July 2, 2008.
 - B. Akteke-Öztürk, G. Köksal and G.-W. Weber, Çekicilik Fonksiyonları: Pürüzlü Optimizasyon ile Yeni Yaklaşımlar Operational Research and Industrial Engineering Annual Conference (YA/EM'08), Galatasaray University, Istanbul, Turkey, June 30 - July 2, 2008.
 - G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, EngOpt 2008 - International Conference on Engineering Op-

- timization, Rio de Janeiro, Brazil, June 1-5, 2008; member of International Organizing Committee, Chairman of a session.
- E. Kropat, G.-W. Weber and B. Akteke-Öztürk, Eco-Finance Networks under Uncertainty, EngOpt 2008 - International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008 (cf. above).
 - G.-W. Weber, S. Zeynep Alparslan-Gök and C. Peadamallu, Solution Approaches for Solving Gene-Environment Network Models - a Survey, EngOpt 2008 - International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008 (cf. above).
 - P. Taylan, G.-W. Weber, D. Sezer, I. Batmaz, G. Köksal and F. Yerlikaya, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology, IFORS 2008, Sandton, South Africa, July 13-18, 2008; Stream Organizer, Session Organiser, Chairman of a Session.
 - G.-W. Weber and P. Taylan, Organization in Finance Prepared by Stochastic Differential Equations with Additive and Nonlinear Models and Continuous Optimization, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber, P. Taylan, I. Batmaz, G. Köksal and F. Yerlikaya, Multivariate Adaptive Regression Spline and Continuous Optimization for Modern Applications in Science, Economy and Technology, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - E. Kropat, G.-W. Weber and B. Akteke-Öztürk, Semi-Infinite and Conic Optimization in Human and Financial Sciences under Uncertainty, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür Akyüz, E. Kropat, Z.-K. Görgülü and D. DeTombe, Data Mining Used in Complex Societal Problems, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - D. DeTombe and G.-W. Weber, Global Safety - Complex Societal Issues, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, 3rd Open Summer School-Seminar “Achievements and Appli-

- cations of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
- G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Gene-Environment Networks — the Financial Aspect Included, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber, EURO XXIII in Bonn, July 5 — 8, 2009 — Conference Topic: Operations Research: Creating Competitive Advantage (by E. Pesch), 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü, D. DeTombe and C. Pedamallu, Environmental and Life Sciences - Gene-Environment Networks, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
 - G.-W. Weber and S. Özögür Akyüz, Infinite Kernel Learning by Semi-infinite Optimization, International Conference Operations Research (OR 2008), Annual Conference of the German OR Society, University of Augsburg, Germany, September 3-5, 2008, Chairman of a Session.
 - G.-W. Weber, B. Akteke-Öztürk, E. Kropat and Z.-K. Görgülü, Gene-Environment Networks - Optimization and Dynamics, OR50 Annual Conference York, UK, September 9-11, 2008.
 - G.-W. Weber, S. Özögür Akyüz, E. Kropat and Z.-K. Görgülü, Gene-Environment Networks - a New Approach in Finance, Life Sciences and Development, OR50 Annual Conference York, UK, September 9-11, 2008.
 - G.-W. Weber, EURO XXIII in Bonn, July 5 — 8, 2009 — Conference Topic: Operations Research: Creating Competitive Advantage (by E. Pesch), OR50 Annual Conference York, UK, September 9-11, 2008.
 - E. Kropat and G.-W. Weber, Gene-Environment Networks under Uncertainty, Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Rome, Italy, September 15-17, 2008; Member of Program Committee.
 - G.-W. Weber and B. Karasözen, Research on Computational Biology, Workshop at the Occasion of Visit by Members of Max-Planck Institutes, Middle East Technical University, Ankara, November 11, 2008.
 - G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) für Dynamik komplexer technischer Systeme Magdeburg, MPI Magdeburg, February 9, 2009.

- G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) für Mathematik in den Naturwissenschaften, Leipzig, MPI Leipzig, February 10, 2009.
- G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) Stuttgart, MPI for Metals Research, Stuttgart, Department of New Materials and Biosystems, Stuttgart, February 11, 2009.
- E. Kürüm, K. Yıldırak and G.-W. Weber (speaker), A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, Nonlinear Analysis and Applications — Nonlinear 09 (Conference of Memory of National Academy of Science of Ukraine Valery Sergeevich Melnik), Kiev, Ukraine, April 2-4, 2009.
- G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, B. Akteke-Öztürk, A. Özmen and S. Özögür-Akyüz, New Contributions to Mathematical Data Mining: C-MARS and Infinite Kernel Learning, Nonlinear Analysis and Applications — Nonlinear 09 (Conference of Memory of National Academy of Science of Ukraine Valery Sergeevich Melnik), Kiev, Ukraine, April 2-4, 2009.
- G.-W. Weber, E. Kropat and Z. Alparslan-Gök, On Gene Pattern Prediction under Uncertainty, HIBIT 2009 — 4th International Symposium on Health Informatics and Bioinformatics, Ankara, Turkey, April 16-18, 2009; member of Organizing Committee, Chairman of a Session.
- G.-W. Weber, E. Kürüm and K. Yıldırak, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, Workshop on Recent Developments in Applied Probability and Statistics, Dedicated to the Memory of Professor Jürgen Lehn, April 23-24, 2009; member of Program Committee and member of Organizing Committee.
- S. Özögür-Akyüz and G.-W. Weber, Infinite kernel learning by infinite and semi-infinite programming, Second Global Conference on Power and Optimization, PCO2009, Bali, Indonesia, June 1-3, 2009; Member of International Reviewers and Program Committee, and of Steering Committee, Chairman of a Session.
- Z. Volkovich, Z. Barzily, G.-W. Weber and D. Toledano-Kitai, Cluster stability estimation based on a minimal spanning trees approach, Second Global Conference on Power and Optimization, PCO 2009, Bali, Indonesia, June 1-3, 2009.
- G.-W. Weber, 9 Years EUROPT — EURO Working Group on Continuous Optimization, Second Global Conference on Power and Optimization, PCO 2009, Bali, Indonesia, June 1-3, 2009.

- G.-W. Weber, Participation at CREMMA Meeting, Visit at El Manar University, Tunis, Tunisia, June 26, 2009.
- G.-W. Weber, P. Taylan, E. Kürüm and K. Yildirak, Two New Contributions to Financial Mathematics by Continuous Optimization, 7th EUROPT Workshop “Advances in Continuous Optimization”, Remagen, Germany, July 3-4, 2009; Member of Organizing Committee and of Program Committee.
- M.A. López-Cerdá and G.-W. Weber (speaker), 9 Years EUROPT — EURO Working Group on Continuous Optimization, 7th EUROPT Workshop “Advances in Continuous Optimization”, Remagen, Germany, July 3-4, 2009.
- A. Gökmen, I. Gökmen and G.-W. Weber, Sustainable Living: Social, Economical, Ecological and World View, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, Remagen, Germany, July 3-4, 2009; Member of Workshop (Organizing and Program) Committee, Chairman of a Session.
- P.C. Sekhar, L. Özdamar, G.-W. Weber and E. Kropat, A System Dynamics Model for Intentional Transmission of HIV/AIDS, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, Remagen, Germany, July 3-4, 2009.
- G.-W. Weber, On Two New Contributions to Data Mining by and within of Modern Operations Research by Optimization Theory and Computational Statistics, State-of-the-Art Workshop Related to EURO XXIII / EURO Working Groups OR for Development, Ethics, Decision making, Methodology of Societal Complexity and others; Member of Workshop (Organizing and Program) Committee, Chairman of a Session.
- E. Kürüm, K. Yildirak and G.-W. Weber, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- E. Kalayci, M. Aslan, G.-W. Weber and A. Bebel Ismaila, Stochastic Portfolio Optimization in the Nigerian Electricity Sector, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- K. Yildirak, E. Kürüm and G.-W. Weber, Modifying ROC Curve for Diagnostic Systems with more than Two Classes, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- B. Akteke-Öztürk, G. Koksalsal and G.-W. Weber, Nonsmooth Optimization of Desirability Functions by MSG Algorithm, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- F. Yerlikaya Özkurt, P. Taylan, I. Batmaz, G. Koksalsal and G.-W. Weber, A Modification of MARS by Tikhonov Regularization and Conic Quadratic Programming for Modeling Quality Data, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- G.-W. Weber and B. Akteke-Öztürk, Introduction into Operational Research

- and Its Mathematical Problems, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- B. Akteke-Öztürk and G.-W. Weber, Clustering Theory and Techniques, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
 - Z. Volkovich, Z. Barzily, G.-W. Weber and D. Toledano-Kitai, Clustering Theory — Cluster Number and Cluster Stability Estimation, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
 - S. Özögür-Akyüz and G.-W. Weber, Classification Theory Modelling of Kernel Machine by Infinite and Semi-Infinite Programming, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
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 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Izmir edition), distributed at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
 - G.-W. Weber, Unraveling Complex Systems - an Introduction, Workshop on Complex Systems and Mathematics, Mathematics Awareness Month, IAM, METU, Ankara, May 26, 2011.
 - V. Purutcuoglu, coauthors: E. Wit, G.-W. Weber and E. Quek Poh, Stochastic Simulation of Biochemical Networks, Workshop on Complex Systems and Mathematics, Mathematics Awareness Month, IAM, METU, Ankara, May 26, 2011.
 - G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh (Keynote Lecture), Recent Discrete-Continuous Contributions to Cooperative Game Theory and Eco-Finance Networks, The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Amsterdam edition), distributed at the occasion of The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The

- 25th Conference of the European Chapter on Combinatorial Optimization (Amsterdam edition), distributed at the occasion of The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
- G.-W. Weber, Participant at *Informatics Festival, 15th Anniversary Celebration* of Informatics Institute, METU, Ankara, Turkey, June 9-10, 2011.
 - B.Z. Temocin, G.-W. Weber, N. Azevdo and D. Pinheiro, Applications of hybrid systems in finance, The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011 (Session Chair).
 - G.-W. Weber, S.Z. Alparslan Gök and E. Kropat, Recent advances on ellipsoidal cooperative games, The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011.
 - G.-W. Weber and N.A. Zenkevich, 11 Years EUROPT — EURO Working Group on Continuous Optimization (St. Petersburg edition), ...
 - G.-W. Weber and N.A. Zenkevich (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (St. Petersburg edition), and ...
 - G.-W. Weber and N.A. Zenkevich (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (St. Petersburg edition), The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011.
 - G.-W. Weber, Participation at PC Meeting of EURO 2012, Radison Blu Hotel Lietuva, Vilnius, Lithuania, June 29 - July 1, 2011.
 - S. Belen Akgümüş and G.-W. Weber, Epidemik kuramı ve sölentinin yayımını stokastik süyeçlerinin karşılaştırması üzerine, YAEM 2011, 31th Annual Congress of the OR Society in Turkey, July 5-7, 2011, Sakarya, Turkey.
 - G.-W. Weber, A. Özmen, Z. Cavusolu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance and Regulatory Systems: Prediction of Credit Default and a Process Version, 9th EUROPT Workshop on Advances in Continuous Optimization, Ballarat, Australia, July 8-9, 2011 (member of PC).
 - G.-W. Weber. M.A. Lopez-Cerda and O. Stein, 11 Years EUROPT — EURO Working Group on Continuous Optimization (Ballarat edition), ...
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Ballarat edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Ballarat edition), 9th EUROPT Workshop on Advances in Continuous Op-

- timization, Ballarat, Australia, July 8-9, 2011.
- G.-W. Weber, E. Kropat, Ö. Defterli, A. Fügenschuh and B.Z. Temocin, Eco-Finance Networks: Recent Continuous-Discrete Models, Optimization and Control, IFORS 2011 — 19th Triennial Conference of the International Federation of Operational Research Societies, Melbourne, Australia, July 10-15, 2011 (member of PC, various times Stream Organizer and Session Chair).
 - E. Kropat and G.-W. Weber, Robust Regression Analysis for Complex Regulatory Networks in Finance, Computational Biology and Life Sciences, IFORS 2011, Melbourne, Australia, July 10-15, 2011.
 - F. Yerlikaya Özkurt, P. Taylan and G.-W. Weber, Mean Shift Outlier Model with MARS and Continuous Optimization, IFORS 2011, Melbourne, Australia, July 10-15, 2011.
 - G.-W. Weber, Z. Dzalilov, A. Bagirov, M. Mammadov, A. Kruger, J. Yearwood, X. Yang, M.A. Lopez-Cerda, J.E. Martinez-Legaz, V. Jeyakumar, M. Sniedovich, A. Eberhard, R. Burachik and P. Tobin, Memorial Session in Honour of Professor Alexander Rubinov, panel session IFORS 2011, Melbourne, Australia, July 10-15, 2011.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Ballarat Petersburg edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Melbourne edition), IFORS 2011, Melbourne, Australia, July 10-15, 2011.
 - G.-W. Weber, X. Sun, L. Özdamar, C.S. Pedamallu, H. Akar, B. Temocin, A. Kerimov, E. Kürüm and C.E. Can (Keynote Lecture), On the Prediction of Dynamics under Different Assumptions on Time and Uncertainty, Taishan Scholars Academic Forum on Applied Mathematics, Taishan, Shandong Province, China, July 15-20, 2011.
 - G.-W. Weber, S.Z. Alparslan Gök, E. Kropat and Ö. Defterli, F Yelikaya-Özkurt and A. Fügenschuh (Keynote Lecture), Research Progress and New Applications of Eco-Finance Networks and Cooperative Game Theory, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011 (member of the International Committee).
 - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli (Keynote Lecture), Prediction of Default Probabilities in Emerging Markets and of Dynamical Regulatory Networks by New Robust Conic GPLMs and Their Optimization, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.
 - G.-W. Weber, Ö. Defterli, L. Özdamar, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Anticipation of Dynamics under Various Time and Uncertainty Assumptions, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.

- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Medan edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Medan edition), InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.
- G.-W. Weber, Ö. Defterli, L. Özdamar, S.Z Alparslan-Gök, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm (Keynote Lecture), Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011 — The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, August 1-5, 2011.
- V. Purutcuoglu, T. Erdem and G.-W. Weber, Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Appendix — Modern Financial Sector: Impulsive and Stochastic Hybrid Systems, distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Baden-Baden edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Baden-Baden edition), distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber (with K. Pereverza, L. Korotchenko and A. Pasichny), History and Results of OR Disciplines - Introduction in a Programme of Summer School AACIMP, 6th International Summer School AACIMP-2011, Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine (KPI), Kiev, Ukraine, August 8-20, 2011 (member of the PC and Stream Organizer).
- G.-W. Weber, 11 Years EUROPT — EURO Working Group on Continuous Optimization (Kiev edition), ...
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Kiev edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization

- (Kiev edition), distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
- G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, Stochastic Calculus - Main Results (based on lecture by S. Jaimungal), 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, Ö. Defterli, L. Özdamar, S.Z Alparslan-Gök, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Let Us Predict Dynamics under Various Assumptions on Time and Uncertainty, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, S.Z. Alparslan Gök, E. Kropat and Ö. Defterli, F Yelikaya-Özkurt and A. Fügenschuh, New Insights and Applications of Eco-Finance Networks and Collaborative Games, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks through New Robust Conic GPLMs and Optimization, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Impulsive and Stochastic Hybrid Systems in the Financial Sector, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - V. Purutcuoglu, T. Erdem and G.-W. Weber, Kiev Summer School: Appendix — Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - T. Paksoy, E. Özceylan, N.Y. Pehlivan and G.-W. Weber, Estimation of Energy Demand of Turkey Particle - Swarm Optimization Approach, distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber Application of Monte Carlo Methods in Finance (based on dfine lecture, CECAM Workshop 2002), distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
 - G.-W. Weber, E. Kürüm, A. Kerimov, A. Özmen, Ö Defterli and B.Z. Temocin, The OR of Eco-Finance Networks and Cooperative Game Theory under Uncertainty, OR 2011 Zurich, International Conference on Operations Research, August 30 — September 2, 2011, Zurich, Switzerland.
 - E. Kürüm and G.-W. Weber, Understanding Dynamics of Financial Bubbles by Geometrical and Topological Aspects, OR 2011 Zurich, August 30 —

- September 2, 2011, Zurich, Switzerland.
- F. Yerlikaya Özkurt, P. Taylan and G.-W. Weber, CMARS Method for Stochastic Differential Equations, OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
 - A. Özmen, M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, Electricity Price Modelling for Turkey, OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Zurich edition), OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
 - G.-W. Weber, E. Akyildiz and V. Purutcuoglu, Applied Mathematics in Biology, Medicine, Environment and Economics, BIOMATH PANEL for Biohealth Computing Joint Program, Joseph Fourier University - METU, Informatics Institute, October 27, 2011.
 - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov (an Invited (Main) Lecture), How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivation of Modern Finance and Economics from Education, Nature and Ecology — Supported by Applied Mathematics, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber, E. Kropat and Z.K. Görgülü, Portfolio Optimization, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov, Lévy Processes and Related Subjects — Introduction, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber and the aforementioned coauthors, Stochastic Hybrid Systems and Their Optimal Control — Introduction, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber and the aforementioned coauthors, Portfolio Optimization Revisited — Introduction, 1st Winter School on Stochastic Dynamics and Con-

- trol in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
- G.-W. Weber and the aforementioned coauthors, Related Topics — Conclusion and Outlook, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber and the aforementioned coauthors, Lévy Processes and Related Subjects — Appendix, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLM — A New Optimization-Based Method under Uncertainty with Applications in Finance and Regulatory Systems, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber, E. Kropat and Z.K. Görgülü, Portfolio Optimization, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - T. Gönüz and G.-W. Weber, Stochastic Hybrid Systems Driven by Lévy Processes, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Lisbon edition), and ...
 - G.-W. Weber (N. Barsoum et al., coauthors), PCO 2012 Las Vegas - Call for Papers (Lisbon edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Lisbon edition), 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal January 16-20, 2012.
 - G.-W. Weber, Recent Advances in Live and Human Sciences, SysPatho Project Workshop, Bahcesehir University, Istanbul, February 16-17, 2012.
 - G.-W. Weber, S. Özögür-Akyüz, Z. Alparslan-Gök, B. Akteke-Öztürk, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, T. Gönüz, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, Dynamics of Network Predicted under Different Assumptions on Time and Uncertainty.

Analyses in Education, Finance, Economics, Biology and Medicine — Recent Contributions by Applied Mathematics and OR, Workshop of the GOR Working Groups “*Simulation and optimization of complex systems*”, “*Fuzzy systems, neural networks and artificial intelligence*” together with Siemens AG Corporate Technology GTF modelling, simulation & optimization, Universität der Bundeswehr München, Munich, Germany, February 23-24, 2012 (chair of a session).

- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Munich edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Munich edition), Workshop of the GOR Working Groups “*Simulation and optimization of complex systems*”, “*Fuzzy systems, neural networks and artificial intelligence*” together with Siemens AG Corporate Technology GTF modelling, simulation & optimization, Universität der Bundeswehr München, Munich, Germany, February 23-24, 2012.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, B. Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu and C.E Can, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, Workshop on Real Life Applications of Mathematics, Süleyman Demirel University, Isparta, Turkey, February 28, 2012.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Isparta edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Isparta edition), distributed at the occasion of Workshop on Real Life Applications of Mathematics, Süleyman Demirel University, Isparta, Turkey, February 28, 2012.
- V. Purutcuoglu Gazi, Ö. Defterli and G.-W. Weber, Reconstruction of a Complex Biochemical System and Forecasting Its Behaviour, ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, April 26-28, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, C. Güleroglu and B. Temocin, Recent Advances on Stochastic Hybrid Dynamical Financial Systems: Discrete and Continuous, and Their Optimization, ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization Antalya, Turkey, April 26-28, 2012 (co-chair of PC, co-chair of OC, stream organizer and session chair).
- G.-W. Weber, Opening and Closing Address, ...

- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Antalya edition), ...
- R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Antalya edition), and ...
- E. Fernandez, S. Nickel (G.-W. Weber, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, at the occasion of ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization Antalya, Turkey, April 26-28, 2012.
- G.-W. Weber, Participation at PC Meeting of EURO XXV 2012 (Vilnius), Vilnius, Lithuania, June 1-2, 2012.
- G.-W. Weber, S. Kuter, A. Kerimov, B.Z. Temocin and E. Kürüm, Prediction of Network Dynamics under Various Time and Uncertainty Assumptions. Investigations in Education, Finance, Economics, Biology and Medicine — Recent Contributions Supported by Optimization, Constructive Nonsmooth Analysis and Related Topics, Euler International Mathematical Institute, St. Petersburg, Russia, June 18-23, 2012.
- G.-W. Weber, Closing Address, ...
- R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (St. Petersburg edition), ...
- E. Fernandez, S. Nickel (G.-W. Weber, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, ...
- N. Barsoum, P. Vasant et al. (G.-W. Weber, presenter), The 6th Global Conference on Power Control and Optimization - PCO 2012 Las Vegas, USA, August 6-8, 2012 (St. Petersburg edition), and ...
- A. Pasichny, K. Pereverza, et al., (G.-W. Weber, presenter), Summer School, Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kyiv, Ukraine, August 3-16, 2012 (St. Petersburg edition), distributed at the occasion of Constructive Nonsmooth Analysis and Related Topics, Euler International Mathematical Institute, St. Petersburg, Russia, June 18-23, 2012.
- A. Vasin, P. Kartunova and G.-W. Weber, Models for capacity and electricity market design, The Sixth International Conference on Game Theory and Management (GTM 2012), St. Petersburg, Russia, June 27-29, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, Stochastic Hybrid Dynamical Systems in Economy and Finance: Modelling, Optimization and Control, distributed at the occasion of The Sixth International Conference on Game Theory and Management (GTM 2012), St. Petersburg, Russia, June 27-29, 2012.

- G.-W. Weber, Closing Address, ...
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- A. Pasichny, K. Pereverza, et al., (G.-W. Weber, presenter), Summer School, Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kyiv, Ukraine, August 3-16, 2012, at the occasion of GTM 2012, St. Petersburg, Russia, June 27-29, 2012.
- A. Vasin, Y. Sosina and G.-W. Weber, Evaluation of market power in local and two-node markets, International Workshop Networking Games and Management (NGM-2012), Petrozavodsk, Karelia, Russia, June 30 — July 2, 2012.
- G.-W. Weber, A.A. Vasin, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, Modelling, Optimization and Control of Stochastic Hybrid Dynamics in Economy and Finance, distributed at the occasion of NGM-2012, Petrozavodsk, Karelia, Russia, June 30 — July 2, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, On Stochastic Hybrid Dynamical Systems in Science and Finance: Continuous and Discrete, Their Modelling, Optimization and Control, The 10th EUROPT Workshop on Advances in Continuous Optimization Siauliai, Lithuania, July 5-7, 2012 (member of the International Programme Committee; session chair).
- G.-W. Weber, A. Bagirov, T. Tchemisova-Cordeiro and J. Zilinskas, Closing Address, ...
- G.-W. Weber, A. Bagirov, T. Tchemisova-Cordeiro and J. Zilinskas, 12 Years EUROPT — EURO Working Group on Continuous Optimization, at the occasion of The 10th EUROPT Workshop on Advances in Continuous Optimization Siauliai, Lithuania, July 5-7, 2012.
- G.-W. Weber, Dynamics Represented under Different Assumptions on Time and Uncertainty, with Motivations from Education, Development, Environment and Economy, EWG-ORD PhD Workshop “OR for Developing Countries: times of economic crises”, Vilnius, Lithuania, July 7, 2012 (member of OC).
- G.-W. Weber, A. Özmen and E. Kropat, Spline Regression Models for Complex Multi-modal Regulatory Networks, Workshop on The State of The Art on Complex Problem Handling and Decision Making, Lithuania, July 8, 2012 (member of OC-PC).

- G.-W. Weber, B. Temocin, A. Karimov, E. Kilic and Y. Yolcu Okur, Stochastic Hybrid Dynamical Financial Systems and Their Optimization, EURO XXV 2012, 25th European Conference on Operations Research, Vilnius, Lithuania, July 8-11, 2012 (member of PC; organizer of main area, stream and sessions).
- T. Avkar and G.-W. Weber, Parameter Estimation for Stochastic Differential Equations, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- A. Özmen, E. Kropat and G.-W. Weber, Robust Optimization in Spline Regression Models for Target-Environment Networks, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- S. Kuter, Z. Akyürek, G.-W. Weber and A. Özmen, Testing of MARS on MODIS Images for Local Atmospheric Correction, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- F. Yerlikaya Özkurt and G.-W. Weber, Estimation of Multi-dimensional Stochastic Differential Equations with CMARS Method, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- H. Venceslau, L. Nascimento, A.E. Xavier and G.-W. Weber, A Novel Approach for Solving the Geometric Distance Problem, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- E. Kartal Koc, C. Iyigun, I. Batmaz and G.-W. Weber, Restructuring the forward step of CMARS by a mapping approach, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
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- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.
- H. Öz, F. Yilmaz and G.-W. Weber, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Differential Equations, International Workshop on Applied Probability (IWAP 2014), "Probability: The Measure of Tomorrow", Antalya, Turkey, June 16-19, 2014.
- G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Partial Differential Equations, VIII International Conference on Game Theory and Management (GTM2014), St. Petersburg, Russia, June 25-27, 2014.

- V. Belton, T. Bedford, G.-W. Weber, N. Zenkevich (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of VIII International Conference on Game Theory and Management (GTM2014), St. Petersburg, Russia, June 25-27, 2014.
- L. Amaya Moreno, Ö. Defterli, A. Fügenschuh and G.-W. Weber, Exploring Genetic Networks with Time-Discrete Dynamics, IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014 (member in OC and PC).
- G.-W. Weber, A. Özmen and E. Kropat, Reconstruction of Gene-Environment Networks Under Uncertainty, IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014.
- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014.
- G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps, 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10-12, 2014 (member of PC; chair of sessions).
- G.-W. Weber, O. Stein and J. Zilinskas, 14 Years EUROPT - EURO Working Group on Continuous Optimization, 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10-12, 2014.
- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10-12, 2014.
- S. Kuter, G.-W. Weber and Z. Akyürek, Modern OR for the Classification of Satellite Images, Workshop on the State of the Art on Problem Handling and Decision Making, Barcelona, Spain, July 13, 2014.
- G.-W. Weber, A. Özmen, M.H. Yildirim, New Approach to Day-Ahead Electricity Price Forecasting: MARS and CMARS Models, IFORS 2014 — 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014 (member of the PC, organizer of main areas, streams and sessions).
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Cooperative Games and Bubbles, IFORS 2014 — 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014.
- L. Pavlenko, O. Dziuba, A. Pasichny, K. Pereverza, D. Fishman, O. Nazarenko and G.-W. Weber, Summer School AACIMP: Introducing Operational Research to the Students with Various Backgrounds, IFORS 2014 — 20th Conference of the International Federation of Operational Research Socie-

- ties, Barcelona, Spain, July 13-18, 2014.
- G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Küüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya-Özkurt, P. Taylan, V. Purutcuoglu, Z. Alparслан-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and N.S. Aydin, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. In Education, Finance and Economy, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Partial Differential Equations, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, A. Özmen and M.H. Yildirim, Day-Ahead Electricity Price Forecasting: MARS and CMARS Models, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - S.Z. Alparслан Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Eco-Finance Networks and Collaborative Games, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - V. Belton, T. Bedford, G.-W. Weber, O. Nazarenko and A. Pasichnyi, Video: EURO 2015, Glasgow - Scotland UK, at the occasion of 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Differential Equations, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Multivariate Adaptive Splines for Linear Inverse ECG Problem, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, A. Özmen and E. Kropat, Disclosure of Gene-Environment Networks Under Uncertainty, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.

ne, August 1-15, 2014.

- G.-W. Weber, Ö. Türker Bayrak and M.H. Yildirim, Hybrid Model to Forecast Day-Ahead Electricity Prices: Wavlet-MARS, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- M.H. Yildirim and G.-W. Weber, Robust Electricity Market Model under Uncertainties, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, A. Özmen and Y. Yilmaz, A Natural Gas Consumption Forecasting Model for Residential User, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedamallu, E. Kropat and V. Strijov, Lévy Processes and Related Subjects, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, Nonparametric Adaptive Regression for Ground Motion Prediction, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks through Robust Conic GPLMs, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- S. Kuter, G.-W. Weber and Z. Akyürek, Use of Modern Applied Mathematics in Remote Sensing, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber and F. Yerlikaya Özkurt, Multi-Dimensional Dynamics Under Uncertainty by Using CMARS, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, Stochastic Calculus - Main Results, based on lecture by Prof. S. Jaimungal, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, Application of Monte Carlo Methods in Finance (based on dfi-

- ne lecture, CECAM Workshop 2002), conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, O. Stein, J. Zilinskas, 14 Years EUROPT EURO Working Group on Continuous Optimization, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
 - G.-W. Weber, B. Temocin, D. Pinheiro, N. Azevedo, S. Kestel and N.S. Aydin, Continuous-Discrete Optimal Control of Markov Switching Models and Stochastic Hybrid Systems with Jumps, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
 - A. Özmen, E. Kropat, G.-W. Weber, Robust counterparts for two-modal complex regulatory networks: RMARS and RCMARS, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
 - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, Closing Session, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
 - G. Wäscher, G.-W. Weber (presenter), Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, Closing Session, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
 - G.-W. Weber, B. Temocin, D. Pinheiro, N. Azevedo, S. Kestel and N.S. Aydin (Keynote Lecture), Continuous-Discrete Optimal Control of Stochastic Hybrid Systems with Jumps - Theory, Methods and Applications in Finance, Economics and Science, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
 - G. Wäscher, G.-W. Weber (presenter), Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
 - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
 - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching Processes - Applications in Finance, Economics and Science, The First Pacific Optimization Conference (POC2014), Wuxi, China,

October 31 - November 2, 2014.

- G.-W. Weber (presenter), Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, The First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
- V. Belton, T. Bedford, D. Pisinger, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, The First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
- S. Kuter, Z. Akyürek and G.-W. Weber, Multi-Spectral Image Classification by Nonparametric Regression Splines, ICRAPAM 2014 - International Conference on Recent Advances in Pure and Applied Mathematics, Antalya, Turkey, November 6-9, 2014.
- S. Kuter, G.-W. Weber and B. Karasözen, Applied Mathematics for Reconstruction of Satellite Data on Weather and Land-Use, ODTÜ'de Bilim Eglencelidir - 2014, METU, Ankara, Turkey, November 14, 2014.
- G.-W. Weber, On Optimal Control of Stochastic Hybrid Systems with Jumps and Markov Switching Models and Its Applications, The 3rd International Conference on Complex Dynamical Systems and Their Applications: New Mathematical Concepts and Applications in Life Sciences (CDSS 2014), Ankara, Turkey, November 24-26, 2014.
- G.-W. Weber, Welcome speech, 66th Anniversary of the Universal Declaration of Human Rights "Panel of Gender Inequality", METU, Ankara, Turkey, December 6, 2014.
- S. Kuter, G.-W. Weber and B. Karasözen, Modern Uygulamalı Matematik ve Modern Sürekli Optimizasyon Bağlamında Parametrik Olmayan Regresyon Eğrilerinin Bilim, Mühendislik ve Finans Alanlarındaki Güncel Uygulamaları, Anadolu Üniversitesi, Akademik Bilişim Konferansı - AB 2015, Eskisehir, Turkey, January 31 - February 6, 2015.
- G.-W. Weber, Participation at EURO-2015 - Joint PC-OC meeting, Glasgow, April 13-14, 2015, with visit of University of Strathclyde, Glasgow, UK, and University of Edinburgh, UK, at April 15, 2015.
- G.-W. Weber, E. Savku, D. Pinheiro and N. Azevedo, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching Processes - Applications in Finance and Economics, 16th International Symposium on Econometrics, Operations Research and Statistics, Trakya University, Edirne, Turkey, May 7-10, 2015.
- V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, and
- D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, 16th International Symposium on

- Econometrics, Operations Research and Statistics, Trakya University, Edirne, Turkey, May 7-10, 2015.
- G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku, A New Contribution to Continuous Optimization: Optimal Control of Stochastic Hybrid Systems with Jumps - and its Applications in Finance, Economics and Science, Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai University, China, May 10-12, 2015 (OC co-chair; session chair).
 - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, and
 - D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Closing Ceremony, Shanghai University, China, May 10-12, 2015.
 - G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku, Optimal Control of Stochastic Hybrid Models in the Framework of Regime Switches in Finance and Economics, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015 (member of the OC; session chair).
 - E. Kalayci, A. Inkaya, G.-W. Weber, Effective Risk Measures and Derivatives Pricing in Illiquid Electricity Markets with Random Events, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - M.H. Yildirim, Ö. Türker Bayrak, A.S. Selcuk Kestel and G.-W. Weber, Wavelet Multivariate Adaptive Regression Splines and Their Application to the UK Electricity Market, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - E. Köksal and G.-W. Weber, Exchange Rates Forecasting with a New Combined Machine Learning and Statistical Learning Method, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - H. Öz, F. Yilmaz and G.-W. Weber, Optimal Control Problems of Stochastic Heat Equation with Runge-Kutta Schemes, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - S. Ergun, S.Z. Alparslan Gök, B.B Kirlar and G.-W. Weber, A Game Theoretical Approach to Crypto Cloud Computing and Its Economical and Financial Aspects, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Con-

- ference, 12-15 July 2015, University of Strathclyde, and
- D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
 - A. Cevik, M. Eyüboğlu and G.-W. Weber, MARS metodu ile T1-MR görüntüleme dayalı Alzheimer/MCI erken teşhisi, Hacettepe University - Middle East Technical University Workshop on Neuroscience and Neurotechnology, Ankara, June 9, 2015.
 - Y. Yılmaz, R. Kurz, A. Özmen and G.-W. Weber, A New Algorithm for Condition Monitoring of Gas Turbines, ASME Turbo Expo 2015: Turbine Technical Conference and Exposition, GT2015, Montréal, Canada, June 15-19, 2015.
 - O. Palanci, S.Z. Alparslan Gök, G.-W. Weber and Ü. Kara, A new axiomatization of the interval Shapley value, SING11-GTM2015, European Meeting on Game Theory, St. Petersburg State University, St. Petersburg, Russia, July 8-10, 2015.
 - A. Özmen, G.-W. Weber and I. Batmaz, Precipitation Modeling by Polyhedral RCMARS and Comparison with MARS and CMARS, 13th EUROPT Workshop on Advances in Continuous Optimization, July 8-10, 2015, Edinburgh, United Kingdom (member of the PC and session organizer).
 - G.-W. Weber, J. Zilinskas, S. Caferi, D. Kvasov, O. Stein and T. Tchemisova, 15 Years EUROPT - EURO Working Group on Continuous Optimization, conveyed at 13th EUROPT Workshop on Advances in Continuous Optimization, July 8-10, 2015, Edinburgh, United Kingdom.
 - F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, Nonparametric Adaptive Regression for Earthquake Prediction, EWG ORD - IFORS Workshop on OR for Development, Glasgow, Scotland, July 9-10, 2015 (member of the workshop committee).
 - G.-W. Weber and E. Savku, Optimal Control of Stochastic Hybrid Systems with Jumps and Delay- Background and Applications in OR and Science, State-of-the-Art Workshop of several EURO Working Groups, Glasgow, Scotland, July 12, 2015 (member of the workshop committee).
 - S. Kuter, Z. Akyurek, A. Özmen and G.-W. Weber, Recent Applications of Applied Mathematics and Modern Continuous Optimization in Satellite Image Processing, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015 (member of the PC, multiple main area, stream and session organizer).
 - E. Savku and G.-W. Weber, Optimal Control of Stochastic Hybrid Delayed Models with an Application to Finance, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.

- P. Taylan, E. Uysal and G.-W. Weber, Modeling with Nonparametric Logistic Regression Based on Generalized Additive Models and B- Splines, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- Y. Puzanova, O. Molchanovskiy, D. Fishman, O. Nazarenko, K. Pereverza, O. Pasichnyi and G.-W. Weber, Introducing OR for Multidisciplinary Environment: Ten Years Experience of the Summer School AACIMP in Kyiv, Ukraine, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- G.-W. Weber and M.H. Yildirim, Stochastic Portfolio Optimization of UK Electricity Market, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- E. Kilic, F. Yerlikaya Özkurt and G.-W. Weber, GMM Estimation for Semi-parametric Models by Conic Optimization: Special Application to Finance, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- G.-W. Weber, On Smart Cities and Summer School AACIMP-2015, interview with Radio Voice of Kyiv, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, Welcome address in the Opening Ceremony of Summer School AACIMP-2015, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- E. Fernandez and G.-W. Weber, On EURO ...
- N. Maculan and G.-W. Weber, On IFORS ...
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ...
- G.-W. Weber, On EURO and IFORS, EURO 2016 and IFORS 2017, in the Sponsor and Poster Session of Summer School AACIMP-2015, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- F. Summers, S.T. Elias-Özkan and G.-W. Weber, Eco-Center Project in Rural Countryside- Kerkenes Team in Anatolia, Turkey, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, C.S. Pedamallu, E. Kropat, L. Özdamar and C. Raave, Primary Education Facilities in Cities: Infrastructure Quality Management, 10th

- International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- H. Tuydes and G.-W. Weber, Civil Protection and Disaster Management: Transportation Needs, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - M.O. Olgun, O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Transportation Interval Situations and Related Games, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - A. Özmen, G.-W. Weber and I. Batmaz, Precipitation Modeling by RC-MARS, CMARS and MARS, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, New CMARS Method for Earthquake Prediction, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - G.-W. Weber, E. Savku, N.S. Aydin, D. Pinheiro and N. Azevedo, Modern Finance, Economics and Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps and Delay, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - S. Fores and G.-W. Weber, The Association of European Operational Research Societies (EURO), conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - G.-W. Weber and M.H. Yildirim Aslan, Electricity Market and Its Stochastic Portfolio Optimization, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - G.-W. Weber, F. Yilmaz and H. Öz, Optimal Control of Stochastic Heat Equation with Symplectic-Partitioned Runge-Kutta Schemes, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
 - G.-W. Weber, Stochastic Calculus - Main Results, based on lecture by Prof. S. Jaimungal, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-

18, 2015.

- G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku (Plenary Lecture), Optimal control of stochastic hybrid systems with jumps and its applications in finance, economics and science, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ...
- S. Fores and G.-W. Weber (provider), On EURO ...
- G.-W. Weber and M.H. Yildirim, Stochastic Portfolio Optimization of the Electricity Market in the UK, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- G.-W. Weber, A. Özmen and I. Batmaz, Precipitation Prediction by RC-MARS and Comparison with MARS and CMARS, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- G.-W. Weber, E. Savku, N. Azevedo, D. Pinheiro and A.S. Kestel, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching-Processes Applications in the Sectors of Energy, Environment, Finance, and Economics, OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015 (session chair).
- A. Özmen and G.-W. Weber, Natural Gas Consumption Forecasting Models for Residential User with New Robust Optimization, OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015.
- G.-W. Weber, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Closing of OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015.
- Y. Yilmaz, A. Özmen and G.-W. Weber, Eysel Doğalgaz Kullanıcılarının, Günlük Bazda Yıllık Tüketimlerinin Tahmin Modellerinin MARS ve CMARS Metotlarıyla Oluturulması, 5th National Operations Research and Industrial Engineering Congress (ORIE 2015), Ankara, Turkey, September 9-11, 2015.
- H.Öz, G.-W. Weber and F. Yilmaz, Stokastik Diferensiyel denklemlerin Optimal Kontrol Problemlerin ve Çok Düzeyli Monte-Carlo Simülasyonu, 5th National Operations Research and Industrial Engineering Congress (ORIE 2015), Ankara, Turkey, September 9-11, 2015.
- F. Yilmaz, H.Öz and G.-W. Weber, Multi-level Monte-Carlo Method in optimal control problems of stochastic differential equations with Runge-Kutta methods, European Conference on Numerical Mathematics and Advanced

Applications — ENUMATH 2015, Ankara, Turkey, September 14-18, 2015.

- G.-W. Weber, E. Savku, D. Pinheiro, N. Azevedo (and N.S. Aydin) (plenary lecture), A New Contribution to Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps - with Applications in Finance, Economics and Science, SOR '15, The 13th International Symposium on Operations Research in Slovenia, September 23-25, 2015, Bled, Slovenia (member of Program Committee; co-chairman opening session).
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Opening and Closing Sessions of SOR '15, The 13th International Symposium on Operations Research in Slovenia, September 23-25, 2015, Bled, Slovenia.
- E. Kilic, G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku (Keynote Lecture), Continuous-Discrete Optimal Control of Stochastic Hybrid Systems with Jumps and Its Application in Science, Economics and Finance, ICEMIS 2015: International Conference on Engineering & MIS 2015, Istanbul, Turkey, September 24-26, 2015 (member of Steering Committee).
- G.-W. Weber, E. Savku, N.S. Aydin, A. Kerimov and E. Kilic (Plenary Lecture), Emerging Operational Research, Finance and Economics: Optimal Control under Regime Switches and Paradigm Shifts, ICCESSEN 2015 - 2nd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October, 14-19, 2015 (member of Scientific Committee, and session chair).
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- G.-W. Weber (short talk), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ICCESSEN 2015 - International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October, 14-19, 2015.
- F. Yerlikaya-Özkurt, A. Askan and G.-W. Weber, A Hybrid Computational Method based on Convex Optimization for Outlier Problems, INFORMS Annual Meeting 2015, Philadelphia, USA, November 1-4, 2015.
- G.-W. Weber, Optimal Control of Stochastic Dynamics under Regime Switches, Paradigm Shifts and Delayed - Applications in Economics, Finance and Science, OCA2015 The 6th International Conference on Optimization and Control with Applications, Changsha, China, December 12-14, 2015 (chairman of a session).
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, OCA2015 The 6th International Conference on Optimization and Control with Applications, Changsha, China, December 12-14, 2015.

- G.-W. Weber, E. Savku, Y. Yolcu-Okur, A. Kerimov, E. Kilic and N.S. Aydin, Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay Applications in Finance, Economics and Nature, The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), EURO 2016, Poznan, Poland, July 3-6, 2016, at The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016.
- G.-W. Weber, Interview with IRIB (The national TV of Iran), Channels 1 and 4, at the occasion of The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016 (broadcasted at January 25, 2016).
- G.-W. Weber, Stochastic Optimal Control under Regime Switches and Jumps - Applications in Finance, Economics and Nature, Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), EURO 2016, Poznan, Poland, July 3-6, 2016, Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.
- G.-W. Weber, Interview with Shiraz Television, at the occasion of Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.
- G.-W. Weber and H. Tuydes Yaman, Smart Cities: Better Evacuation, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, C.S. Pedamallu. L. Özdamar and H. Akar, Smart Cities: Improvements in Education of Migrant Students, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- M.O. Olgun, O. Palanci, S.Z. Alparslan Gök and G.-W. Weber (presenter), Transportation Interval Situations and Related Games, conveyed at Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, F. Yerlikaya Öztürk and A. Askan, Smart Cities: Earthquake “Prediction”, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur, A. Kerimov and E. Kilic, Finance, Economics and Nature: Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, at the occasion of Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.

- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- E. Savku and G.-W. Weber, Optimal Control of delayed Jump-Diffusions with Regimes and an Application to Finance, EURO Working Group for Commodities and Financial Modelling, 57th Meeting, Coimbra, Portugal, May 12-14, 2016.
- E. Savku and G.-W. Weber, Stokastik Hibrit Sistemlerde Optimum Kontrol ve Finansal Uygulamaları, 11. Ankara Matematik Günleri, May 26-27, 2016.
- G.-W. Weber and E. Savku, Stochastic Optimal Control of Hybrid Systems under Regime Switches and Impulsiveness, in Finance, Economics and Nature, 3rd Istanbul-Ankara Workshop on Stochastic Processes, IAM, METU, Ankara, Turkey, June 16-17, 2016 (chair of a session).
- G.-W. Weber, 10 Years EURO ORD - EURO Working Group OR for Development, EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
- G.-W. Weber, C.S. Pdamallu, L. Özdamar, H. Akar and H. Mawengkang, Primary Education in Developing Countries: A System Approach to Understand the Factors that Influence the Quality, EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016 (a Workshop chair and Session Chair).
- G.-W. Weber and E. Savku, Finance, Economics and Nature: Stochastic Optimal Control under Shifts, Switches and Impulses, conveyed at the occasion of eEURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
- G.-W. Weber, A. Özmen and I. Batmaz, Precipitation Modeling by Polyhedral RCMARS, conveyed at the occasion of EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
- G.-W. Weber, J. Zilinskas (presenter), T. Tchemisova, O. Stein, S. Cafieri, R. Burachik, A. Grothey, D. Kvasov, 16 Years EUROPT - EURO Working Group on Continuous Optimization, EUROPT 2016, Warsaw University of Technology, Warsaw, Poland, July 1-2, 2016.
- G.-W. Weber, E. Savku, N.S. Aydin, and T. Tchemisova (presenter), Optimization and Control Reenters under Stochastic Uncertainty, Jumps, Regime Switches and Paradigms Shifts, EUROPT 2016, Warsaw University of Technology, Warsaw, Poland, July 1-2, 2016.
- S. Kuter, G.-W. Weber and Z. Akyürek, Artificial Neural Networks vs. Multivariate Adaptive Regression Splines for Sub-Pixel Snow Mapping from Satellite Data, Workshop on the State of the Art and Future Development, Poznan, Poland, July 3-6, 2016 (a Workshop chair).

- G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Akar and H. Mawengkang, Analyzing and Controlling the Factors Influencing the Quality of Primary Education in Developing Countries, Workshop on the State of the Art and Future Development, Poznan, Poland, July 3-6, 2016.
- G.-W. Weber, E. Savku and Y. Yolcu Okur, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay in Finance, Economics and Nature, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016 (PC member, organizer of Main Areas, Streams and Sessions).
- S. Kuter, Z. Akyürek and G.-W. Weber, Soft Classification of Satellite Data for Snow Mapping by using Multivariate Adaptive Regression Splines, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
- G. Nalcaci, A. Özmen, G.-W. Weber and Ö.M. Gül, Load Forecasting Using Multivariate Adaptive Regression Splines for Turkish Electricity System, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
- G. Nalcaci, M. Atay and G.-W. Weber, Creating Art Based on Mathematics - Revisiting OR via “Deep Learning”, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
- G.-W. Weber, E. Savku, Y. Yolcu Okur, A. Karimov, E. Kilic, and M. Baldemor (presenter), Recent Advances of Optimization and Optimal Control to Economics and Finance, The 10th International Conference on Optimization: Techniques and Applications, ICOTA 10, Ulaanbaatar, Mongolia, July 23-26, 2016 (member of International PC, session chair).
- G.-W. Weber, M.G. Speranza and M. Baldemor (presenter), IFORS 2017 - Quebec City, The 10th International Conference on Optimization: Techniques and Applications, conveyed at ICOTA 10, Ulaanbaatar, Mongolia, July 23-26, 2016.
- G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Akar and H. Mawengkang, A System Approach to Understand the Factors that influence the Quality of Primary Education in Developing Nations, 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
- M.G. Speranza et al., I. Abi-Zeid and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
- R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and G.-W. Weber (presenter),

- EURO 2018 in Valencia, at the occasion of 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
- H. Öz, G.-W. Weber and F. Yilmaz, Order Conditions of Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, The 5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), Belgrade, Serbia, August 16-19, 2016.
 - G.-W. Weber, E. Savku, N.S. Aydin and B. Temocin, Optimal Control of Stochastic Hybrid Systems under Regime Switches, Impulsiveness and Delay, in Finance, Economics and Nature, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016.
 - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016 (Closing Session).
 - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016 (Closing Session).
 - G.-W. Weber, C. Sekhar Pedamallu, L. Özdamar, H. Akar and H. Mawengkang (invited speech), Controlling Factors which Influence the Quality of Primary Education in Developing Countries, ICCESSEN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
 - G.-W. Weber, E. Savku and A.S. Kestel, Optimal Control in Economics Revisited under Stochastic Uncertainty, Jumps, Regime Switches and Paradigms Shift, ICCESSEN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016 (member of Scientific Committee; chairing of a session).
 - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, conveyed at ICCESSEN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
 - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, conveyed at ICCESSEN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
 - Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Çok Değişkenli Uyarlanabilir Regresyon Eğrilerinin Ters EKG Problemine Uygulanması —

Application of Multivariate Adaptive Regression Splines for Inverse ECG Problem, BIYOMUT 2016 - XX. Biyomedikal Mühendisliği Ulusal Toplantısı, Izmir, Seferhisar, Turkey, November 3-9, 2016.

- E. Avci-Sürücü, W. Ketter and G.-W. Weber, Modelling Electricity Balancing Market Prices And Premiums, INFORMS Annual Meeting 2016, Nashville, USA, November 13-16, 2016.
- E. Avci-Sürücü, W. Ketter and G.-W. Weber, Modelling Electricity Balancing Market Prices And Premiums: A Non-parametric Non-linear Approach, INFORMS Annual Meeting 2016, Nashville, USA, November 13-16, 2016.
- G.-W. Weber and E. Savku, Optimal Control in Economics and Finance under Stochastic, Impulsive, Regime Switching and Delay Uncertainty (keynote speech in absence), The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016 (member of Scientific Committee); both Video and Slides (PDF file) in the conference package.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016, in the conference package.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016, in the conference package.
- S. Kuter, Z. Akyürek and G.-W. Weber, Fractional Snow Cover Mapping From MODIS Data Over European Alps by Multivariate Adaptive Regression Splines, 8th EARSeL Workshop on Land Ice and Snow, February 7-9, 2017, Bern, Switzerland.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments in economics and finance, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017 (member on International Scientific Committee; chairman of a session; keynote lecture within stream).
- G. Nalcaci, M. Ermis, A. Özmen and G.-W. Weber, Long-Term Load Forecasting - Comparison of Models Based on MARS, ANN and SVR Methods, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- B. Kalayci, A. Özmen, A. Kerimov and G.-W. Weber, Identification of Systems of Stochastic Differential Equations For Generalized Model Classes in Financial Mathematics Including Investor Sentiment, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April

27-29, 2017.

- P. Taylan, E. Uysal and G.W. Weber, A Comparative Study on Classification by Nonparametric Regression, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- E. Köksal, A. Özmen, and G.-W. Weber, Modeling of Exchange Rates by Multivariate Adaptive Regression Splines and Comparison with Classical Statistical Methods, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- Ö. Defterli, A. Özmen and G.-W. Weber, A Real-World Application for Genetic Regulatory Networks via Spline Regression Models, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- A. Özmen and G.-W. Weber, A Review of R(C)MARS and (C)MARS with a Comparison Study, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Conference Announcements for OR Community, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, Conference Announcements for OR Community, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- E. Savku and G.-W. Weber, An Optimal Consumption Problem For a Stochastic Hybrid Model With Delay, SIAM Conference on Control and Its Applications (CT17), Pittsburgh, USA, July 10-14, 2017.
- G.-W. Weber and E. Savku, Stochastic Optimal Control of Hybrid Systems with Impulses in a World of Regime Switches and Paradigm Shifts, Impulsiveness, in Finance, Economics and Nature, EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- G.-W. Weber, J. Zilinskas (presenter), G. Bigi, S. Cafieri, A. Grothey, D. Kvasov, E. Minisci and F. Schoen, 17 Years EUROPT - EURO Working Group on Continuous Optimization, in the session of EUROPT Fellow Lecture of EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and J. Zilinskas (speaker), EURO 2018 in Valencia, in Closing Session of EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- S. Kuter, B.B. Ciftci and G.-W. Weber, Snow Cover Mapping from Satellite

Data by Artificial Neural Networks and Support Vector Machines - an OR Contribution to Land-Use, Water Management and Development, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.

- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- G.-W. Weber and C. Brugha, EURO 2019 in Dublin, Ireland, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- G.-W. Weber, E. Savku, A. Kerimov, N.S. Aydin, Stochastic optimal control of impulsive systems under regime switches and paradigm shifts, in biology, finance and economics, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- E. Kürüm, G.-W. Weber and C. Iyigün, A geometrical approach to forecast burst-time of stock market bubbles, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, P.C. Sekhar, L. Özdamar, H. Akar and H. Mawengkang, A system approach to understand the factors that influence the quality of primary education in developing nations, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, F. Summers, S. Elias Özkan and M. Baldemor (presenter), The Kerkenes eco-center project in Central Anatolia, Turkey, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber and C. Brugha, EURO 2019 in Dublin, Ireland, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, In Gratitude and Love to late Professor Miroljub “Miro” Kljajic, video, at Session to the Memory of Professor Miroljub Kljajic at InterSymp 2017 - The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, July 31 - August 4, 2017 (technical assistance: MSc. Emre Akdogan, IAM, METU).
- G.-W. Weber, G.-W. Weber, R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and D. Kofjac (speaker), EURO 2018 in Valencia, conveyed at InterSymp 2017 - The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, July 31 - August 4, 2017.
- B. Kalayci, A. Özmen, A. Karimov and G.-W. Weber, Identification of Coupled Systems of Stochastic Differential Equations in Finance Including Investor Sentiment by Multivariate Adaptive Regression Splines (MARS), InteriOR 2017 (The 4th International Conference on Operational Research),

Medan, Indonesia, August 21-23, 2017.

- S. Kuter and G.-W. Weber, Modern Continuous Optimization for Processing Satellite Data, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
- G.-W. Weber, H. Öz Bakan and F.N. Yilmaz, Minimal Truncation Error Constants for Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
- G.-W. Weber, E. Savku, N. Azevedo and D. Pinheiro, Stochastic optimal control under impulsive, regime switching and paradigm shifting environments in economics and finance, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
- G.-W. Weber, C.S. Pdamallu, L. Özdamar, H. Akar, H. Mawengkang and S. Suwilo, A system approach to understand the factors that influence the quality of primary education in developing nations, 1st IconICT (The International Conference on Information and Communication Technologies) 2017, Medan, Indonesia, August 25-27, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, 1st IconICT (The International Conference on Information and Communication Technologies) 2017, Medan, Indonesia, August 25-27, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, 1st IconICT (The International Conference on Information and Communication Technologies) 2017, Medan, Indonesia, August 25-27, 2017.
- G.-W. Weber and E. Savku, Optimal control in the presence of stochastic, impulsive, regime switching and paradigm shifting environments in finance and economy, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017 (Session Chair).
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017.

- G.-W. Weber, H. Öz Bakan and F. Yilmaz, Minimal Truncation Error Constants for Runge-Kutta Method for Stochastic Optimal Control Problems, distributed at ICCESEN 2017 - 4th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 4-8, 2017 (Invited Speech; member of Scientific Committee).
- G.-W. Weber, address (video) to ICCESEN 2017 - 4th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, October 4-8, 2017 (conducted by Dr. H. Öz Bakan); https://drive.google.com/file/d/0B-H3EEptYoh_cHVEUWZ4c0lrWVU/view?ts=59cca2f0.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia ...
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, distributed at ICCESEN 2017 - 4th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, October 4-8, 2017.
- B.B. Ciftci, S. Kuter, Z. Akyürek and G.-W. Weber, Fractional snow cover mapping by artificial neural networks and support vector machines, GeoAdvances 2017, Safranbolu, Karabük, Safranbolu, Karabuk, Turkey, October 14-15, 2017.
- G.-W. Weber and E. Savku, Stochastic Optimal Control of Impulsive Systems under Regime Switches and Paradigm Shifts, in Science, Finance and Economics, The Second Pacific Optimization Conference (POC 2017), Perth, Australia, December 5-7, 2017 (Member of Advisory Board, and Session Chair).
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, The Second Pacific Optimization Conference (POC 2017), Perth, Australia, December 5-7, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, The Second Pacific Optimization Conference (POC 2017), Perth, Australia, December 5-7, 2017.
- G.-W. Weber, attendance of, and active participation at: The ECMT+ Teacher Workshop in Poznan, Poland, Poznan University of Technology, December 14-15, 2017.
- G.-W. Weber, EURO and its conferences in 2018 and 2019, conveyed at the occasion of The ECMT+ Teacher Workshop in Poznan, Poland, Poznan University of Technology, December 14-15, 2017.
- G.-W. Weber and E. Savku, An Optimal Consumption Problem by the Tools of Maximum Principle for a Markov Regime-Switching Jump-Diffusion Model with Delay, WGSCO2018 - Workshop on Graph Spectra, Combinatorics and Optimization, Aveiro, Portugal, January 25-27, 2018.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO

2018 in Valencia, ...

- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, at the occasion of WGSCO2018 - Workshop on Graph Spectra, Combinatorics and Optimization, Aveiro, Portugal, January 25-27, 2018.
- G.-W. Weber, A. Özmen, M. Graczyk-Kucharska, M. Szafranski, M. Golinski, M. Spychala, K. Bogurska-Matys, I. Lewandowska, D. Rosinska (Plenary Lecture), Knowledge Acceleration by Competences and Multivariate Adaptive Regression Splines, International Days of Competences for the Future, Poznan University of Technology, Poznan, Poland, March 12-14, 2018.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of International Days of Competences for the Future, Poznan University of Technology, Poznan, Poland, March 12-14, 2018.
- G.-W. Weber, C.S. Pedamallu, L. Ozdamar, H. Akar and H. Mawengkang, A system-dynamics approach to identify the factors influencing the quality of primary education in developing countries, abstract, Nonlinear Analysis and Applications, 4rd International Conference of memory of corresponding member of National Academy of Sciences of Ukraine, Valeriy Sergeevich Melnik (1952-2007), Kyiv, Ukraine, April 4-6, 2018; book of abstracts, page 77.
- G.-W. Weber and E. Savku, Stochastic optimal control of impulsive systems with regime switches and paradigm shifts - for finance, economics and science, 61th Meeting of EURO Working Group for Commodities and Financial Modelling, Kaunas, Lithuania, May 16-18, 2018 (plenary talk).
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, ...
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, at the occasion of 61th Meeting of EURO Working Group for Commodities and Financial Modelling, Kaunas, Lithuania, May 16-18, 2018.
- G.-W. Weber, S. Kuter, Z. Akyürek, Addressing some Global Challenges with Earth-observing Satellite Data, New OR-Analytics and the Human Factor - "An OR Contribution to Land-Use, Water Management and Development", XXXI International Seminar of Ergonomics, Poznan University of Technology, Poznan, Poland, May 23-25, 2018; published in IFORS Developing Countries Online Resources: http://ifors.org/developing_countries/index.php?title=Addressing_some_Global_Challenges_with_Earth-observing_Satellite_Data%2C_New_OR-Analytics_and_the_Human_Factor.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, at the occasion of XXXI International Seminar of Ergonomics, Poznan University of Technology, Poznan, Poland, May 23-25, 2018.
- G. Kara, A. Özmen and G.-W. Weber, Is it possible to increase the stability under parallelepiped uncertainty in robust portfolio optimization?, XV

- Conference on Computational Management Science (CMS 2018), Trondheim, Norway, May 29-31, 2018.
- G.-W. Weber, B. Kalayci, A. Özmen and A. Karimov, Relationship between Investors' Neural-Behavioral Responses and Finance by Identifying Coupled Systems of Stochastic Differential Equations, Using MARS, 2018 INFORMS International Conference, Taipei, Taiwan, June 17-20, 2018.
 - G.-W. Weber, Upcoming conferences of EURO, distributed and communicated at the occasion of 2018 INFORMS International Conference, Taipei, Taiwan, June 17-20, 2018.
 - S. Ergün, P. Usta, G.-W. Weber and S.Z. Alparslan Gök, Optimization for Supply Chain Planning After Disasters with Cooperative Game Theory under Uncertainty, International Conference on Applied Mathematics in Engineering (ICAME18), Burhaniye/Balikesir, Turkey, June 27-29, 2018.
 - S. Kuter, Z. Akyürek, G.-W. Weber (presenter), Recent Contributions to Climate Change and Water Resource Management by Applying Novel Analytics on Satellite Data, EWG-ORD 2018 Workshop OR for Sustainable Development: Establishing Policy and Measuring Goal Attainment, Complutense University of Madrid, Spain, July 5-7, 2018 (member of Scientific Committee; Chair of a Session).
 - G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, EWG-ORD 2018 Workshop OR for Sustainable Development: Establishing Policy and Measuring Goal Attainment, Complutense University of Madrid, Spain, July 5-7, 2018.
 - G.-W. Weber and A. Cevik, Voxel-MARS and CMARS: Methods for Early Detection of Alzheimers Disease by Classification of Structural Brain MRI, EURO 2018, Valencia, Spain, July 8-11, 2018 (member of Program Committee; responsible for some Main Areas, Stream and Session Organizer, Chair of Sessions).
 - G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Mawengkang and H. Akar, A system approach to assess the factors which influence the quality of primary education in developing countries, EURO 2018, Valencia, Spain, July 8-11, 2018.
 - B. Kalayci, G.-W. Weber, A. Özmen and A. Karimov, Mutual Relevance of Investor Sentiment and Finance by Modeling Coupled Stochastic Systems by Using MARS, EURO 2018, Valencia, Spain, July 8-11, 2018.
 - B. Kjamili and G.-W. Weber, Liberated social entrepreneur using business metrics: QZenobia refugee/migrant big data analytics startup, EURO 2018, Valencia, Spain, July 8-11, 2018.
 - G.-W. Weber and E. Savku, Stochastic optimal control in the presence of regime switches, paradigm shifts jumps and delay, in finance, economics and medicine, EUROPT 2018, 16th EUROPT Workshop on Advances in Conti-

- nuous Optimization, Almeria, Spain, July 12-13, 2018 (member of Program Committee; Organizer / Chair of Sessions).
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2019 in Dublin, Ireland, at the occasion of EUROPT 2018, 16th EUROPT Workshop on Advances in Continuous Optimization, Almeria, Spain, July 12-13, 2018.
 - G.-W. Weber and E. Savku, Stochastic optimal control and games in finance, economics and medicine under regime switching, jumps and delay, OR 2018, Brussels, Belgium, September 12-14, 2018.
 - G.-W. Weber, A. Özmen and Y. Zinchenko, RMARS under Cross-Polytope Uncertainty: The case of Prediction for Natural Gas Consumption, OR 2018, Brussels, Belgium, September 12-14, 2018.
 - L. Gouveia and G.-W. Weber, EURO 2019 - 30th European Conference on Operational Research 23rd - 26th June, Dublin, Ireland, OR 2018, Brussels, Belgium, September 12-14, 2018.
 - G.-W. Weber and B. Kjamili (keynote lecture), LiBerated Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics, International Conference on Computer Science and Applied Mathematics, Parapat, Sumatra, Indonesia, October 11-13, 2018; further coauthors: A. Özmen, M. Graczyk-Kucharska, M. Szafranski, M. Golinski, M. Spsychala, K. Bogurska-Matys, I. Lewandowska and D. Rosinska.
 - G.-W. Weber and A. Cevik, Voxel-MARS and CMARS: methods for early detection of Alzheimer's disease by classification of structural brain MRI, International Conference on Computer Science and Applied Mathematics, Parapat, Sumatra, Indonesia, October 11-13, 2018.
 - G.-W. Weber, B. Kalayci, A. Özmen and A. Karimov, Mutual Relevance of Investor Sentiment and Finance by Modeling Coupled Stochastic Systems by Using MARS, International Conference on Computer Science and Applied Mathematics, Parapat, Sumatra, Indonesia, October 11-13, 2018.
 - G.-W. Weber, EURO 2019 - 30th European Conference on Operational Research 23rd - 26th June, Dublin, Ireland, International Conference on Computer Science and Applied Mathematics, Parapat, Sumatra, Indonesia, October 11-13, 2018.
 - G.-W. Weber, A. Cevik and V. Purutcuoglu (presenter) (keynote lecture), Voxel-MARS and CMARS: Early Warning of Alzheimer's Disease by Classification of Structural Brain MRI, ICCESSEN 2018 - 5th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, October 12-16, 2018.
 - G.-W. Weber, E. Savku and V. Purutcuoglu (presenter), Stochastic optimal control under regime switches, paradigm shifts jumps and delay, in finance, economics and medicine, ICCESSEN 2018 - 5th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya,

October 12-16, 2018.

- G.-W. Weber, L. Gouveia and B. Gürbüz (presenter), EURO 2019 - 30th European Conference on Operational Research 23rd - 26th June, Dublin, Ireland, ICCESEN 2018 - 5th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, October 12-16, 2018.
- G.-W. Weber and E. Savku (keynote lecture), Stochastic optimal control in a world of regime switches, paradigm shifts, jumps and delay, in finance, economics and medicine, MICASH 2018, Medan, Sumatra, Indonesia, October 15-17, 2018.
- G.-W. Weber, C.S. Peadamallu, L. Özdamar, H. Akar and H. Merwengkang, Assess the factors which influence the quality of primary education in developing countries: a system-dynamics approach, MICASH 2018, Medan, Sumatra, Indonesia, October 15-17, 2018.
- G.-W. Weber, EURO 2019 - 30th European Conference on Operational Research 23rd - 26th June, Dublin, Ireland, MICASH 2018, Medan, Sumatra, Indonesia, October 15-17, 2018.
- G.-W. Weber, IFORS 2020 Korea - The 22nd Conference of the International Federation of Operational Research Societies, Seoul, Korea, MICASH 2018, Medan, Sumatra, Indonesia, October 15-17, 2018.
- M.O. Olgun, . Palanci, E. Qasim, G.W. Weber and S.Z. Alparslan Gök, Grey transportation games, ORM 2018 - Operations Research Moscow 2018, Russia, October 22-27, 2018.
- O. Palanci, M.O. Olgun, G.W. Weber and S.Z. Alparslan Gök, Grey Baker-Thompson rule, ORM 2018 - Operations Research Moscow 2018, Russia, October 22-27, 2018.
- S. Ergun, P. Usta, S.Z. Alparslan Gök and G.W. Weber, A cooperative game theoretical model on emergency logistics planning after natural disasters, ORM 2018 - Operations Research Moscow 2018, Russia, October 22-27, 2018.
- G.-W. Weber, S. Kuter, Z. Akyürek and H. Mawengkang, Global Challenges with Earth-observing Satellite Data, New OR-Analytics and the Human Factor OR Contribution to Land-Use, Water Management and Development, International Public Lecture, Operational Research - Analytics for Global Challenges, University of North Sumatra, Mathematics Department USU, 7 February 2019.
- G.-W. Weber, B. Kalayci, A. Özmen and A. Karimov, Relationship between Investors' Neural-Behavioral Responses and Finance by Identifying Coupled Stochastic Differential Equations, Using MARS, International Public Lecture, Operational Research - Analytics for Global Challenges, University of North Sumatra, Mathematics Department USU, 7 February 2019.
- S. Kuter, Z. Akyürek and G.-W. Weber, Recent Contributions to Climate Change and Water Resource Management by Applying Novel Analytics on

- Satellite Data, International Public Lecture, Operational Research - Analytics for Global Challenges, University of North Sumatra, Mathematics Department USU, 7 February 2019.
- G.-W. Weber, EURO 2019 and IFORS 2020, at International Public Lecture, Operational Research - Analytics for Global Challenges, University of North Sumatra, Mathematics Department USU, 7 February 2019.
 - G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Mawengkang and H. Akar, System approach to Assess the Factors that Influence Quality of Primary Education in Developing Countries, International Public Lecture, Operational Research for Assessing Educational Quality, UMSU, Medan, Indonesia, 9 February 2019.
 - G.W. Weber, O.N. Onak, Y. Serinagaoglu Dogrusoz, Robustness of Reduced-Order Non-Parametric Model for Inverse ECG Solution against Modeling and Measurement Noise, International Public Lecture, Operational Research for Assessing Educational Quality, UMSU, Medan, Indonesia, 9 February 2019.
 - G.-W. Weber, S. Ergün, P. Usta, and S.Z. Alparslan Gök, Optimization for Supply Chain Planning after Disasters with Cooperative Game Theory under Uncertainty, International Public Lecture, Managing Disaster with Operations Research, Tunas Bangsa, Siantar, Indonesia, 11 February 2019.
 - G.-W. Weber, A. Cevik, and S. Sitepu, Voxel-MARS and CMARS: Methods for Early Detection of Alzheimers Disease by Classification of Structural Brain MRI, International Public Lecture, Managing Disaster with Operations Research, Tunas Bangsa, Siantar, Indonesia, 11 February 2019.
 - G.-W. Weber, B. Kalayci, A. Özmen and A. Karimov, Mutual Relevance of Investor Sentiment and Finance by Modeling Coupled Stochastic Systems with MARS, International Public Lecture, Managing Disaster with Operations Research, Tunas Bangsa, Siantar, Indonesia, 11 February 2019.
 - G.-W. Weber, EURO 2019 and IFORS 2020, at International Public Lecture, Managing Disaster with Operations Research, International Public Lecture, Tunas Bangsa, Siantar, Indonesia, 11 February 2019.
 - M.O. Olgun, . Palanci, E. Qasim, G.W. Weber and S.Z. Alparslan Gök, Grey Transportation Games, Workshop: Big Data Analytics for Liberated Social Entrepreneur, Computer Science Post Graduate Program, University of North Sumatra, USU, Medan, Indonesia, 13 February 2019.
 - G.-W. Weber and B. Kjamili, LiBerated Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics; further coauthors: A. Özmen, M. Graczyk-Kucharska, M. Szafranski, M. Golinski, M. Spsychala, K. Bogurska-Matys, I. Lewandowska and D. Rosinska, Workshop: Big Data Analytics for Liberated Social Entrepreneur, Computer Science Post Graduate Program, University of North Sumatra, USU, Medan, Indonesia, 13 February 2019.

- G.-W. Weber, EURO 2019 and IFORS 2020, at Workshop: Big Data Analytics for Liberated Social Entrepreneur, at Computer Science Post Graduate Program, University of North Sumatra, USU, Medan, Indonesia, 13 February 2019.
- G.W. Weber, M.O. Olgun, . Palanci, E. Qasim, and S.Z. Alparslan Gök, Grey Transportation Games, International Public Lecture, Big Data Analytics for Liberated Social Entrepreneur, Computer Systems department of Pancu Budi University, Medan, Indonesia, 14 February 2019.
- G.-W. Weber and B. Kjamili, LiBerated Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics; further coauthors: A. Özmen, M. Graczyk-Kucharska, M. Szafranski, M. Golinski, M. Spychala, K. Bogurska-Matys, I. Lewandowska and D. Rosinska, International Public Lecture, Big Data Analytics for Liberated Social Entrepreneur, Computer Systems department of Pancu Budi University, Medan, Indonesia, Medan, Indonesia, 14 February 2019.
- G.-W. Weber and E. Savku, Stochastic Optimal Control in the Presence of Regime Switches, Paradigm Shifts Jumps and Delay - in Finance, Economics and Medicine, International Public Lecture, Operational Research and Its Application in Technology and Economy, UINSU, Medan, Indonesia, 15 February 2019.
- G.-W. Weber, A. Özmen and Y. Zinchenko, RMARS under Cross-Polytope Uncertainty - Prediction of Natural Gas Consumption, International Public Lecture, Operational Research and Its Application in Technology and Economy, UINSU, Medan, Indonesia, 15 February 2019.
- G.-W. Weber, EURO 2019 and IFORS 2020, at International Public Lecture, Operational Research and Its Application in Technology and Economy, UINSU, Medan, Indonesia, 15 February 2019.
- S. Kuter, Z. Akyürek and G.-W. Weber, Assessing the Suitability of Multivariate Adaptive Regression Splines for Snow Cover Classification on SENTINEL 2 MSI Data, Vol. 21, EGU2019-283, 2019, EGU General Assembly 2019, Vienna, Austria, April 7-12, 2019.
- G.-W. Weber, Discussion with Students: Guide to Writing Thesis, and Presentation of Five Research Works, Department of Mathematics, UINSU, Medan, at: Conference and Seminar: Medan, Indonesia, April 20-23, 2019.
- G.-W. Weber, Discussion with Students: Guide to Writing Thesis, and Presentation of Five Research Works, Department of Computer Science, UINSU, Medan, at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019.
- G.-W. Weber, Discussion with Students, and Presentation of Five Research Works, Faculty of Education (Tarbiya and Teaching Sciences), UINSU, Medan, at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019.
- G.-W. Weber and E. Barbee Tirkolae, A Novel Mathematical Model for

- Robust Green Urban Waste Collection, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
- G.-W. Weber and E. Burcu Gürbüz, Numerical approach for rumor propagation model, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
 - G.-W. Weber, B. Kjamili and D. Czerkawski, LiBerated Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics - With a Note on Ability and Disability, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
 - E. Wiecek-Janka, J. Majchrzak, M. Wyrwicka and G.-W. Weber, Application of Grey Clusters in the Development of a Synthetic Model of the Goals of Polish Family Enterprises' Successors, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
 - G.-W. Weber, I. Baltas and A.N. Yannacopoulos, A robust control approach to optimal management of defined contribution pension funds, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
 - G.-W. Weber, On IFORS 2020, distributed at: Conference and Seminar: Medan, Indonesia, April 20-24, 2019; universities: USU, UMSU, UINSU, Panca Budi and Potensi Utama.
 - G.-W. Weber and E. Barbee Tirkolaee, A Novel Mathematical Model for Robust Green Urban Waste Collection, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.
 - G.-W. Weber and E. Burcu Gürbüz, Numerical approach for rumor propagation model, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.
 - G.-W. Weber, B. Kjamili and D. Czerkawski, LiBerated Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics - With a Note on Ability and Disability, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.
 - E. Wiecek-Janka, J. Majchrzak, M. Wyrwicka and G.-W. Weber, Application of Grey Clusters in the Development of a Synthetic Model of the Goals of Polish Family Enterprises' Successors, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.

- G.-W. Weber, I. Baltas and A.N. Yannacopoulos, A robust control approach to optimal management of defined contribution pension funds, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.
- G.-W. Weber, On IFORS 2020, distributed at: Conference and Seminar: Siantar, Indonesia, April 20-24, 2019; university: Amik Stmik Tunas Bangsa Pematang Siantar.
- G.-W. Weber, B. Kjamili and D. Czerkawski, Migport Refugee Big Data Analytics: LiBerated Social Entrepreneur Using Business Metrics - With a Note on Ability and Disability, presentation distributed at: IDSES'19 - International Data Science & Engineering Symposium, Safranbolu, Turkey, May 2019, 2-3.
- G.-W. Weber, E. Babae Tirkolae and A. Goli, Multi-Objective Aggregate Production Planning Model Considering Overtime and Outsourcing Options under Fuzzy Seasonal Demand, MANUFACTURING - International Scientific and Technical Conference, Poznan University of Technology, Poznan, Poland, May 19-22, 2019.
- M. Graczyk-Kucharska and G.-W. Weber, On IFORS 2020, MANUFACTURING - International Scientific and Technical Conference, Poznan University of Technology, Poznan, Poland, May 19-22, 2019.
- E. Savku and G.-W. Weber, Stochastic Differential Games of Optimal Portfolio Strategies with Regime-Switches, International Conference Dynamic, Games and Science, CIRM, invited speaker, France, June 3-7, 2019.
- E. Savku and G.-W. Weber, An Optimal Consumption Problem with Regimes and Memory, 9th General AMaMeF Conference Paris, France, June 11-14, 2019.
- S. Kuter, Z. Akyürek, G.-W. Weber and S. Gütmen, Advancing Water-Resource Management: Application of Novel OR-Analytics Snow Classification on Sentinel 2 Imagery by MARS, EWG-ORD 2019 Workshop Renewable: Energy, Health & Sustainability, University College Dublin, June 20, 2019 (member of Scientific Program Committee; Session Chair).
- S.Ch. Belen and G.-W. Weber, An approach to the stochastic information with an application and stochastic prey-predator, EURO 2019, Dublin Ireland, June 23-26, 2019 (member of Program Committee; Organizer of Areas, Streams and Sessions).
- B. Kjamili and G.-W. Weber, Migport - Big Data Analytics and Economics of Migration, EURO 2019, Dublin, Ireland, June 23-26, 2019.
- G.-W. Weber and M. Atay, Classification and Generation of Digital Marble Art (EBRU) by revisiting OR via Deep Learning, EURO 2019, Dublin, Ireland, June 23-26, 2019.
- M. Graczyk-Kucharska, M. Szafranski, S. Gütmen, A. Cevik, G.-W. Weber,

- Z. Wlodarczak, M. Golinski and A. Özmen, Modeling Problems in a Regional Labor Market in Poland with MARS, EURO 2019, Dublin, Ireland, June 23-26, 2019.
- B. Gürbüz and G.-W. Weber, A numerical scheme for solving a rumor propagation model, EURO 2019, Dublin, Ireland, June 23-26, 2019.
 - G.-W. Weber, E. Savku and I. Baltas, Stochastic optimal control and games in a world of regime switches, paradigm shifts, jumps and delay, EUROPT 2019 - 17th Workshop on Advances in Continuous Optimization, Strathclyde University, Glasgow, United Kingdom, June 28-29, 2019.
 - I. Baltas, A. Yannacopoulos, G.-W. Weber, M. Szcepanski, K. Kolodziejczyk and L. Dopierala, Applications of Robust Control in Finance, Insurance and Risk Management, EUROPT 2019 - 17th Workshop on Advances in Continuous Optimization, Strathclyde University, Glasgow, United Kingdom, June 28-29, 2019.
 - G.-W. Weber, Water, Life, and EUROPT, EUROPT 2019 - 17th Workshop on Advances in Continuous Optimization, Gala Dinner, Strathclyde University, Glasgow, United Kingdom, June 28-29, 2019.
 - G.-W. Weber, On IFORS 2020, EUROPT 2019 - 17th Workshop on Advances in Continuous Optimization, Closing Session, Strathclyde University, Glasgow, United Kingdom, June 28-29, 2019.

5.2 Seminars, Further Invitations

- G.-W. Weber, various seminars at Chair C of Mathematics, RWTH Aachen, Germany, 1988-1992.⁹
- G.-W. Weber, Nonlinear optimization: Characterization of structural stability, Research visit at Faculteit der Toegepaste Wiskunde, Universiteit Twente, Enschede, The Netherlands, May 1991.
- G.-W. Weber, Visit of “Vakgroep Kwantitatieve Economie” at Faculty of Economy, Rijksuniversiteit Limburg, Maastricht, November 1992.

⁹Examples:

- G.-W. Weber, Optimierung: Parametrischer und struktureller Aspekt, Chair C of Mathematics, RWTH Aachen, June 8, 1988.
- G.-W. Weber, Semi-infinite Optimierung: zu einer Charakterisierung der (Ausschneidungs-) Stabilität der zulässigen Menge, Chair C of Mathematics, RWTH Aachen, January 14, 1991.
- H.Th. Jongen and G.-W. Weber, Semi-infinite Optimization: Toward a Characterization of Structural Stability, Chair C of Mathematics, RWTH Aachen, July 18, 1991.
- G.-W. Weber, Minimization of a Max-Type Function — Characterization of Structural Stability, Chair C of Mathematics, RWTH Aachen, June 1992.

- G.-W. Weber, On Structural Stability, Visit of Ilmenau University of Technology (Thüringen country), Germany, September 1994.
- G.-W. Weber, An Index in Nonlinear Control Theory, Visit of Ilmenau University of Technology (Thüringen country), Germany, September 1994.
- G.-W. Weber, Nichtlineare Optimierung: Stabilitätsaspekte und parametrische Methoden, Visit of Humboldt-University Berlin, Germany, February 1993.
- G.-W. Weber, Charakterisierung struktureller Stabilität in der nichtdifferenzierbaren Optimierung, Visit of Humboldt University Berlin, Germany, May 1993.
- G.-W. Weber, Einige topologische und praktische Aspekte in der semi-infiniten Optimierung, Mathematical Colloquy, visit of Otto-von-Guericke University Magdeburg, Germany, December 1997.
- G.-W. Weber, Einige topologische Aspekte in der nichtlinearen Optimierung, visit of Seminar on Fluid Dynamics, Faculty of Mechanics at TU Darmstadt, Germany, January 1998.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und Beziehungen zur optimalen Steuerung und diskreten Optimierung, (habilitation) introductory talk in Department of Mathematics at Darmstadt University of Technology, Germany, December 1998.
- G.-W. Weber, Ein kleiner Streifzug durch Optimierung und optimale Steuerung: stetig und diskret, talk in “Orientation Colloquy” (for students) in Mathematical Department at Darmstadt University of Technology, Germany, January 1999.
- G.-W. Weber, Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem, habilitation talk in Department of Mathematics at Darmstadt University of Technology, Germany, December 1999.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung: Theorie, Anwendungen und strukturelle Grenzen, visit of Seminar on Parametric Optimization at Humboldt University Berlin, Germany, December 1999.
- G.-W. Weber, Moderne algebraische und numerische Methoden in der statistischen Versuchsplanung, inaugural talk in Department of Mathematics at Darmstadt University of Technology, Germany, April 2000.
- G.-W. Weber, Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem, visit of Karlsruhe University of Technology, Institute for Mathematics in Economy and Statistics, talk in Colloquy Operations Research, Karlsruhe, Germany, May 2000.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht, visit of Bayerian Julius-Maximilian University of Würzburg, Faculty of Ma-

- thematics and Computer Science, Würzburg, Germany, June 2000.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht, visit of University of Cologne, Mathematical Institute and Center of Applied Informatics, Cologne, Germany, talk in Advanced Seminar, July 2000.
 - G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht, visit of Clausthal University of Technology, Institute for Mathematics, Clausthal, Germany, September 2000.
 - G.-W. Weber, Some Remarks on Semi-Infinite Optimization, Advanced Seminar of Mathematical Institute of University of Cologne, Germany, October 2000.
 - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, visit of Research Seminar of Subdivision "Optimization and Algorithmical Discrete Mathematics" in Department of Mathematics at Gerhard-Mercator University Duisburg, Germany, January 2001.
 - G.-W. Weber, Kontinuierliche Optimierung und Steuerung bei Verkehrsprozessen - theoretischer Hintergrund, aktuelle Lösungsansätze und Perspektiven, visit of University of Kaiserslautern, Department of Mathematics, Kaiserslautern, Germany, February 2001.
 - G.-W. Weber, Kontinuierliche Optimierung und Steuerung bei Produktions- und Verkehrsprozessen - theoretischer Hintergrund, aktuelle Lösungsansätze und Perspektiven, visit of University of Dortmund, Department of Mathematics, Dortmund, Germany, April 2001.
 - G.-W. Weber, Diskrete und stetige Optimierung bei Produktions- und Verkehrsproblemen, research seminar "Optimierung" at Faculty of Mathematics of Technical University Chemnitz, Germany, May 2001.
 - G.-W. Weber, Discrete optimization in traffic and tomography, visit of University of Poznan, Poland, talk at Mathematical Colloquy, May 2001.
 - G.-W. Weber, Stabilität und Lösung der Optimierung und Steuerung von kontinuierlich-diskreten Problemen aus Produktion und Verkehr - Theorie, Methoden und Perspektiven, visit of Friedrich-Alexander University Erlangen-Nuremberg, Faculty I of Science, Erlangen, Germany, July 2001.
 - G.-W. Weber, Stabilität und Lösung der Optimierung und Steuerung von kontinuierlich-diskreten Problemen aus Produktion und Verkehr - Theorie, Methoden und Perspektiven, visit of Bergakademie University Freiberg, Faculty of Mathematics and Computer Science, Freiberg, Germany, September 2001.
 - G.-W. Weber, various seminars at Department of Mathematics, TU Darmstadt, Faculty of Mathematics, TU Chemnitz, and University of Cologne, 2000-2003.

- G.-W. Weber, Struktur und Algorithmen der nichtlinearen-diskreten Optimierung von Problemen aus Produktion und Wirtschaft - Theorie, Methoden und Perspektiven, visit of Technical University Dresden, Faculty of Mathematics and Science, Dresden, Germany, December 2001.
- G.-W. Weber, Die Ausgleichsgerade durch vorgegebene Datenpunkte, visit of Fachhochschule (University of Applied Sciences) Wiesbaden, Department of Mathematics, Science, Data Evaluation and Environmental Technologies, Wiesbaden, Germany, June 2002.
- G.-W. Weber, Kontoführungsmethoden und Berechnungsformeln für festverzinsliche Wertpapiere (US-Methode und ISMA-Methode, Gemeinsamkeiten und Unterschiede), visit of Hochschule (University of Applied Sciences) of Technology and Economic at Dresden, Faculty of Computer Science and Mathematics, Dresden, July 2002.
- G.-W. Weber, Die Ausgleichskurve durch vorgegebene Datenpunkte, visit of Friedrich-Alexander University Erlangen-Nuremberg, Chair of Applied Mathematics II, Erlangen, Germany, July 2002.
- G.-W. Weber, Einführung in das Kapitel „Gewöhnliche Differentialgleichungen“ für ingenieurwissenschaftliche Studiengänge, Visit of Westsächsische Hochschule Zwickau, University of Applied Sciences of Western Saxony at Zwickau, Faculty of Physical Technologies and Informatics, Zwickau, Germany, December 2002.
- G.-W. Weber, Algorithmische Analyse von Genexpressionsdaten mit Polyeder-Strukturen, visit of Westsächsischen Hochschule Zwickau, University of Applied Sciences of Western Saxony at Zwickau, Faculty of Physical Technologies and Informatics, Zwickau, Germany, December 2002.
- G.-W. Weber, Algorithmic Analysis of Gene Expression Data with Polyhedral Structures, visit of Middle East Technical University Ankara, Institute of Applied Mathematics, Ankara, Turkey, December 2002.
- G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, visit of Middle East Technical University Ankara, Institute of Applied Mathematics, Ankara, Turkey, December 2002.
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- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh, Recent Discrete-Continuous Contributions to Eco-Finance Networks and Cooperative Game Theory, Seminar of Department of Mathematics, Koç University, Istanbul, March 15, 2011.
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- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Research Progress and New Applications of Eco-Finance Networks and Cooperative Game Theory, Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Stochastic and Impulsive Hybrid Systems in Modern

- Finance, Appendix of Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Adelaide edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Adelaide edition), at Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
 - G.-W. Weber, Ö. Defterli, L. Özdamar, Z. Alparslan-Gök, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions?, Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
 - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Stochastic and Impulsive Hybrid Systems in Modern Finance, distributed as Appendix at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
 - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLMs for Prediction of Default Probabilities in Emerging Markets and of Dynamical Regulatory Networks, distributed at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Sydney edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Sydney edition), distributed at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
 - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance and Regulatory Systems: Prediction of Credit Default and a Process Version, Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, August 5, 2011.
 - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Appendix: The Financial Sector in the Presence of Uncertainty: Impulsive vs. Stochastic Hybrid Systems, and ...
 - V. Purutcuoglu, T. Erdem and G.-W. Weber, Appendix: Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of

Technology (KIT), Karlsruhe, Germany, August 5, 2011.

- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Karlsruhe edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Karlsruhe edition), distributed at the occasion of Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, August 5, 2011.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedamallu, E. Kürüm, Büsra Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, General Seminar, Department of Mathematics, METU, Ankara, Turkey.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedamallu, E. Kürüm, B. Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? OR in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, Seminar at Department of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Hong Kong CUHK edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Hong Kong CUHK edition), distributed at the occasion of Seminar at Department of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLM - A New Optimization-Based Method under Uncertainty with Applications in Finance and Regulatory Systems, seminar at Department of Applied Mathematics, Hong Kong Polytechnical Institute Hong Kong, October 21, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Hong Kong PolyU edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Hong Kong PolyU edition), distributed at the occasion of Seminar at Department

- of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N. Serhan Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics - Some Recent Contributions Supported by Applied Mathematics, seminar at Department of Statistics, METU, November 17, 2011.
 - G.-W. Weber, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N. Serhan Aydin, A. Özmen, F. Yerlikaya, Z. Alparslan-Gök, P. Taylan, B. Akteke Öztürk, S. Özögür Akyüz, Y. Yolcu Okur, E. Kropat, M.H. Yildirim, E. Kalayci, D. Pinheiro and N. Azevedo, How Can We Predict Network Predict Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Education, Finance, Economics, Biology and Medicine - Some Recent Contributions Supported by Applied Mathematics, seminar at Balikesir University, December 1-3, 2011.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Balikesir edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Balikesir edition), distributed at the occasion of Seminar at Balikesir University, December 1-3, 2011.
 - G.-W. Weber, S. Özögür-Akyüz, Z. Alparslan-Gök, B. Akteke-Öztürk, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, T. Gönüz, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, Network Dynamics Predicted under Different Assumptions on Time and Uncertainty. Investigations in Live and Human Sciences, seminar at Bahcesehir University, Istanbul, Turkey, February 17, 2012.
 - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Bahcesehir edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Bahcesehir edition), distributed at the occasion of Seminar at Bahcesehir University, Istanbul, Turkey, February 17, 2012.
 - G.-W. Weber, S. Belen Algümüs, Ö. Defterli, T. Avkar, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, Y. Yildiz, E. Kropat and Z.-K Görgülü, A Piece of Modern Applied Mathematics — On the Way to Anticipate Dynamics under Different Time and Uncertainty Assumptions. Motivations and Applications

- in Education, Biology, Medicine, Finance and Economics, seminar at Cag University, Tarsus, Turkey, Department of Mathematics, Science Club and Maths. & Comp. Club, March 30, 2012.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Tarsus edition), and ...
 - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Tarsus edition),
 - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Tarsus edition), distributed at the occasion of Seminar at Cag University, Tarsus, Turkey, Department of Mathematics, Science Club and Maths. & Comp. Club, March 30, 2012.
 - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. Motivations from Education, Finance and Economy, presentation distributed at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
 - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Tarsus edition), and
 - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July, distributed at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
 - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July, distributed in 2012, at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
 - G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, E. Kilic, V. Purutcuoglu, Z. Alparslan-Gök, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Mathematics, Statistics and OR of Stochastic Hybrid Dynamical Systems and Their Use in Finance, Economics and Science, October 12, 2012, Seminar at the Department of Industrial Engineering, Atilim University, Ankara, Turkey.
 - R. Dell'Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Atilim edition), and

- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Atilim edition), at the Seminar at the Department of Industrial Engineering, Atilim University, Ankara, Turkey, October 12, 2012.
- G.-W. Weber, E. Kilic, Y. Yocu Okur, B. Temocin, A. Kerimov, E. Kürüm, S. Belen Algümüs and F. Yerlikaya Özkurt, Optimization and Operational Research of Stochastic Hybrid Systems and Their Applications in Biology, Environment, Economy and Finance, Seminar at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Kyoto edition), Short Communication at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- R. DellOlmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Atilim edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Atilim edition), at the occasion of Seminar at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, E. Kilic, V. Purutcuoglu, Z. Alparslan-Gök, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Mathematics and Operational Research of Stochastic Hybrid Dynamical Systems and Their Applications in Finance, Economics and Science, Seminar at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.
- G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Kobe edition), Short Communication at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.
- R. DellOlmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Kyoto edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The

- Art of Modeling, 13th - 18th July (Kyoto edition), at the occasion of Seminar at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance: Prediction of Credit Default, Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan, October 26, 2012.
 - G.-W. Weber, A. Kerimov, B.Z. Temocin and A. Iscanoglu Cekic, Operational Research and Optimal Control of Stochastic Hybrid Systems and Their Applications in Economy and Finance, Biology and Environment, Seminar at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 29, 2012.
 - G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Taipei edition), Short Communication at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 29, 2012.
 - R. Dell'Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Taipei edition), and
 - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Taipei edition), at the occasion of Seminars at the Department of Computer Science and Information Engineering and at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 26-29, 2012.
 - G.-W. Weber and A. Özmen, Robust Counterparts of MARS and CMARS under Polyhedral Uncertainty, Seminar conveyed at the Faculty of Organization, University of Maribor, Slovenia, March 2013.
 - G.-W. Weber, F. Yerlikaya Özkurt, E. Kilic, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm and A. Özmen, Some Advances in Modeling, Optimization and Optimal Control of Stochastic Dynamics - Applications in Economy, Finance, Biology and Environment, Seminar at the Department of Mathematics, Bilkent University, Ankara, Turkey, March 27, 2013.
 - R. Dell'Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Bilkent edition), and
 - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The

- Art of Modeling, 13th - 18th July (Bilkent edition), conveyed at the occasion of Seminar at the Department of Mathematics, Bilkent University, Ankara, Turkey, March 27, 2013.
- S. Kuter, G.W. Weber, Z. Akyürek and A. Özmen, Nonparametric Regression Splines for Atmospheric Correction of Satellite Images, Seminar at The Institute of Forestry and Rural Engineering, Estonian University of Life Sciences, Tartu, Estonia, October 7-11, 2013.
 - G.-W. Weber, F.Y. Yilmaz and H. Öz, New Advances in Numerical Solution of Stochastic Differential Equations, Lecture at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 14, 2013.
 - G.-W. Weber, E. Kilic, F. Yerlikaya Özkurt, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm, A. Özmen and S. Kestel, Modeling, Optimization and Control of Stochastic Dynamics: Recent Advances in Finance, Economics, Biology and Environment, Lecture at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 15, 2013.
 - S. Kuter, G.-W. Weber, Z. Akyürek and A. Özmen, Nonparametric Regression Splines for Regional Atmospheric Correction, Seminar at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 16, 2013.
 - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
 - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia.
 - G.-W. Weber, A. Kerimov, B. Temocin, E. Kilic, Y. Yocu Okur, F. Yerlikaya, E. Kürüm, C.E. Can, S. Örselik, S. Kestel, F. Yilmaz, H. Öz, N. Azevdo, D. Pinheiro and N.S. Aydin, Stochastic Dynamics and Its Optimization, in Economics and Finance, Science and Engineering, Lecture and Interview at Erzurum Technical University, Faculty of Engineering and Architecture, Department of Civil Engineering, November 18, 2013.
 - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
 - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, Erzurum Technical University, Faculty of Engineering and Architecture, Department of Civil Engineering, November 18, 2013.
 - G.-W. Weber, E. Kilic, A. Kerimov, B. Temocin, Y. Yocu Okur, F. Yerlikaya, E. Kürüm, S. Kestek, F. Yilmaz, H. Öz, N. Azevdo, D. Pinheiro, N.S. Aydin and C.E. Can, Stochastic Hybrid Systems in Nature, Economics, Finance and

- Society, Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, December 11, 2013.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance: Prediction of Credit Default, Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, December 11, 2013.
 - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
 - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, December 11, 2013.
 - G.-W. Weber, Uncertainty Quantification in Regulatory Networks with Parameter Identification, General Seminar, Institute of Applied Mathematics, Middle East Technical University, February 25, 2014.
 - N. Azevedo, D. Pinheiro and G.-W. Weber, Dynamic programming for a Markov-switching jump-diffusion, NIPE Seminar Series, Braga, Portugal, February 19, 2014.
 - S. Kuter, S., G.-W. Weber and Z. Akyürek, Use of nonparametric splines in the classification of satellite images, Seminar at The Faculty of Environmental Engineering, Bialystok University of Technology, Bialystok, Poland, May 28, 2014.
 - G.-W. Weber, Multivariate Adaptive Regression Splines, Seminar at Institute of Mathematics and Informatics University of Vilnius, Vilnius, Lithuania, April 13-17, 2014.
 - G.-W. Weber, Recent Advances in Multivariate Adaptive Regression Splines and Their Applications, Department of Actuarial Sciences, Hacettepe University, Ankara, May 9, 2014.
 - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps under Regime Switching - Applications in Finance, Economics and Science, Seminar at Department of Mathematics, Gazi University, Ankara, February 27, 2015.
 - G.-W. Weber, E. Savku, N.S. Aydin, Y. Yolcu Okur, D. Pinheiro and N. Azevedo, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay - Applications in Finance, Economics and Biology, seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August 18, 2015.
 - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
 - M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec

City, Canada, July 17-21, 2017, ...

- G.-W. Weber, On EURO and IFORS, EURO 2016 and IFORS 2017, in seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August 18, 2015.
- G.-W. Weber, S. Kuter, Z. Akyürek and A. Özmen, A New Method of Applied Mathematics and Operational Research for Satellite Image Processing, conveyed at the occasion of seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August 18, 2015.
- G.-W. Weber, S. Kuter, Z. Akyürek and A. Özmen, Recent Contributions to Satellite Image Processing by Applied Mathematics and Modern Continuous Optimization, ...
- S. Fores and G.-W. Weber, On EURO ...
- N. Maculan and G.-W. Weber, On IFORS, conveyed to Department of Applied Mathematics, The Hong Kong Polytechnic University, August 18, 2015.
- G.-W. Weber, Visit of the University of Maribor, Slovenia, September 22, 2015; compact presentation on Optimal Control of Stochastic Hybrid Systems and Its Real-World Impact in Times of Regime-Switches and Paradigm Shifts.
- G.-W. Weber, E. Savku, S. Belen, S. Kestel and N.S. Aydin, Optimal Control of Stochastic Dynamics under Regime Switches, Paradigm Shifts and with Delay - Applications in Finance, Economics and Science, Seminar at Department of Mathematics and Computer Science, Cankaya University, Ankara, Turkey, November 20, 2015.
- H. Öz, G.-W. Weber and F. Yilmaz, Optimal Control Problems of Stochastic Differential Equations with New Runge-Kutta Methods, Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 9, 2016.
- G.-W. Weber, E. Savku, A.S. Kestel, Y. Yolcu-Okur and B. Temocin, Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay in Finance, Economics and Nature, Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 23, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, conveyed at the occasion of Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 23, 2016.
- E. Savku (and G.-W. Weber), A Stochastic Optimal Control Problem in a Regime-Switching Jump Diffusion Market, Seminar at Department of Mathematics, University of Aveiro, Portugal, May 16, 2016.
- H. Mawengkang, G.-W. Weber and H. Tuydes Yaman, Smart Cities: Better Disaster Transportation Management, Universiti Teknologi Malaysia (UTM), Kuala Lumpur campus (in Mathematics, Physics, Chemistry and Management), Kuala Lumpur, Malaysia, September 25, 2016.

- G.-W. Weber, E. Savku and A. Kerimov, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay - in OR, Finance and Economics, Seminar at Department of Industrial Engineering, TOBB Economy and Technology University, Ankara, Turkey, October 26, 2016.
- G.-W. Weber, E. Savku, N. Azevedo, N.S. Aydin, A. Kerimov and D. Pinheiro, Optimal control in economy and finance under stochastic and impulsive environments, regime switches and paradigm shifts, Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe, Japan, November 24, 2016.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe, Japan, November 24, 2016.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe, Japan, November 24, 2016.
- G.-W. Weber, H. Öz and F. Yilmaz, A discrete optimality system for an optimal harvesting problem by stochastic optimal control, Presentation to Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments in economics and finance, Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
- G.-W. Weber, Stochastic optimal control in finance under impulsive changes and regime switches -foundations, fresh ideas, discussions and friendship-, Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO

- 2018 in Valencia, at the occasion of Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
- G.-W. Weber, E. Savku, N.S. Aydin, E. Kilic and A. Kerimov, Optimal control in stochastic, impulsive, regime switching and paradigm shifting environments for economics, business and agriculture, Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
 - G.-W. Weber, H. Öz Bakan and F. Yilmaz, Symplectic Partitioned-Runge Kutta Method for an Optimal Harvesting Problem, conveyed at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
 - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
 - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
 - G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments, **Video**, IFORS Developing Countries OR Resources Website (recorded at Kansai University, Osaka, Japan, November 2016; formatted at IAM, METU, Turkey, January, 2017, by G. Kara); http://ifors.org/developing_countries/index.php?title=Optimal_control_under_stochastic_impulsive_regime_switching_and_paradigm_shifting_environments.
 - G.-W. Weber, P.C. Sekhar, L. Ozdamar, H. Akar, H. Mawengkang and S. Suwilo, A system approach to understand the factors that influence the quality of primary education in developing nations, Visiting Professor, “International Public Lecture”, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.
 - G.-W. Weber, On EURO’s activities, at the occasion of: Visiting Professor, “International Public Lecture”, Siantar, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.
 - G.-W. Weber, E. Savku, B. Kalayci and E. Akdogan, Stochastic Optimal Control of Impulsive Systems under Regime Switches and Paradigm Shifts, in Finance and Economics, Biology and “Human Sciences”, Seminar at Institute of Computer Science, Poznan University of Technology, October 17, 2017.
 - G.-W. Weber, On EURO’s activities, at the occasion of Seminar at Institute of Computer Science, Poznan University of Technology, October 17, 2017.
 - G.-W. Weber, E. Savku, I. Baltas and E. Akdogan, A stochastic maximum

principle for a Markov regime-switching jump-diffusion model with delay and an application to finance, Department Seminar on Nonlinear Analysis and its Applications, Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznan, Poland, February 2, 2018.

- G.-W. Weber, On EURO's activities, at the occasion of Department Seminar on Nonlinear Analysis and its Applications, Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznan, Poland, February 2, 2018.
- G.-W. Weber and B. Kjamili, LiBeraled Social Entrepreneur Using Business Metrics: Migport Refugee Big Data Analytics, Seminar at University of Northern Sumatra, Medan, Indonesia, October 15, 2018; further coauthors: A. Özmen, M. Graczyk-Kucharska, M. Szafranski, M. Golinski, M. Spychala, K. Bogurska-Matys, I. Lewandowska and D. Rosinska.
- G.-W. Weber, EURO 2019 - 30th European Conference on Operational Research 23rd - 26th June, Dublin, Ireland, at the occasion of Seminar at University of Northern Sumatra, Medan, Indonesia, October 15, 2018.

5.3 Posters

- J. Gebert, M. Lätsch, M., S. Pickl, G.-W. Weber and R. Wünschiers, Stability Analysis of Time Series Gene Expression Data, European Conference on Computational Biology, ECCB 2003, Paris, September 27-30, 2003.
- J. Gebert, M. Lätsch, S. Pickl, B. Veroff, G.-W. Weber and R. Wünschiers, Stability Analysis of Time Series Gene Expression Data, European Conference on Computational Biology, ECCB 2003, Paris, September 27-30, 2003.
- J. Gebert, N. Radde, M. Akhmet, H. Öktem and G.-W. Weber, Modelling Gene Regulatory Networks with Piecewise Linear Differential Equations, Cologne University Bioinformatics Center, August 30, 2004.
- E.M.P. Quek, G.-W. Weber and R. Sambanthamurthi, Determination of Control Structure in Lipid Biosynthesis Pathways, *HIBIT - Proceedings of International Symposium on Health Informatics and Bioinformatics, Turkey '05*, Antalya, Turkey, November 2005.
- A. Gökmen, I. Gökmen, G.-W. Weber and D. DeTombe, Improving Sustainable Living in Rural Areas in Turkey, EURO XXII 2006, Reykjavik, Iceland, July 2-5, 2006 (also noted in 5.1 as a Discussion Presentation).
- N. Özmen, F. Yerlikaya, D. Gürsoy and G.-W. Weber, The Inverse Problem of MEG, SIAM Students Activity Week, *The Mathematics of the Brain*, METU, Ankara, May 2007.
- T. Tchemisova, B. Akteke-Öztürk and G.-W. Weber, On Continuous Optimization Methods in Data Mining - Provided for Decision Support and Other Applications, IFIP TC8/WG8.3 Working Conference International Conference on Collaborative Decision Making (CDM'08), Manufacture des Tabacs, Toulouse, France, July 1-4, 2008.

- A.E. Yilmaz, O.T. Altinoz and G.-W. Weber, Chaos Particle Swarm Optimized PID Controller for the Inverted Pendulum System, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
- E. Savku and G.-W. Weber, Optimal Control of Stochastic Hybrid Delayed Models, 2nd Ankara-Istanbul Workshop on Stochastic Processes (0634SP2015), Istanbul, Turkey, 18-19 June 2015.
- E. Akdogan, Y. Yolcu-Okur and G.-W. Weber, A Survey on Stochastic Control of Itô-Lévy Processes: Applications in Finance and Insurance, Vienna Congress on Mathematical Finance - VCMF 2016, Vienna, Austria, September 12-14, 2016.
- E. Savku and G.-W. Weber, Maximum Principle for a Delayed Stochastic Hybrid Model and an Application to Finance, Vienna Congress on Mathematical Finance - VCMF 2016, Vienna, Austria, September 12-14, 2016.
- S. Kuter, Z. Akyürek and G.-W. Weber, Subpixel Snow Cover Mapping from MODIS Data by Nonparametric Regression Splines, poster presented at the 49th Fall Meeting of American Geophysical Union, December 12-16, 2016, San Francisco, USA.
- N.S. Aydin and G.-W. Weber, Financial Signal Processing with Lévy information, International Data Science & Engineering Workshop (IDSEW18), May 12-13, 2018.
- E. Ayyildiz, V. Purutcuoglu and G.-W. Weber, Inference of Cell Signalling Pathway via Statistical Approaches, International Data Science & Engineering Workshop (IDSEW18), May 12-13, 2018.
- G.-W. Weber, various Posters and Certificates prepared for announcing and conducting scientific events, and their subevents, listed under point 6.

6 Organization of Scientific Events

6.1 Scientific Events Held

- Organizer of various events on “Workshop Analysis” and “Workshop on Discrete Mathematics and Topology”, TU Darmstadt, Germany, 1997-2000.
- Coorganizer of Conference “Mathematische Modellierung und Optimierung” at the Occasion of the Retirement of Prof. Dr. Werner Krabs, TU Darmstadt, Germany, July 1999.
- Coorganizer of Workshop “Optimization - Structure and Stability of Dynamical Systems”, October 2000.
- Organization of the session “Optimal Control of Continuous and Discrete Systems - Theory and Applications” of the conference “EURO 2001” on Operations Research in Rotterdam, July 2000.
- Member of Organizing Committee of Workshop “Smooth and Nonsmooth Optimization: Theory and Applications” of EUROPT, EURO Continuous Optimization Working Group, Rotterdam, July 2001.
- Member of Organizing Committee of International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education” in Almaty, Kazakhstan, September 2002.
- Member of Organization Committee of the workshop “Advances in Continuous Optimization” of EURO working group EUROPT (preceding EURO / INFORMS Joint International Meeting) in Istanbul, Turkey, July 2003.
- Member of International Programming Committee of International Conference “Computational and Informational Technologies for Science, Engineering, and Education CIT-2003”, Ust'-Kamenogorsk, Kazakhstan, September 2003.
- Member of Organizing Committee of Workshop on Challenges of Continuous Optimization in Theory and Applications in Rhodes, Greece, July 2-3, 2004.
- Organization of the sessions at EURO XX Conference, Rhodes, July 4-7, 2004.
- Member of International Programming Committee of International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education” in Almaty, Kazakhstan, September 2004.
- Member of Organizing Committee of Workshop on Sustainable Living in Rural Areas of Turkish, Ankara, Turkey, March 7-21, 2005.
- Support for SIAM Conference on Optimization, Stockholm, Sweden, May, 15-18, 2005; in correspondence with the conference organizers and for EUROPT.
- Member of Organizing Committee of 17th EURO Mini Conference Continuous Optimization in the Industry in Pécs, Hungary, June 29 - July 1, 2005.
- Support for IFORS 2005, Hawaii, July 11-15, 2005; in correspondence with

the conference organizers and for EUROPT, e.g., session organization.

- Member in Program Committee of International Conference on Computational Science and Engineering, Istanbul, Turkey, June 27-30, 2005.
- Member of International Program Committee of 7th International Conference CASYS'07, on Computing Anticipatory Systems, International Conferences on Computing Anticipatory Systems in Liege, Belgium, August 8-13, 2005.
- Member of Organizing Committee of Workshop on Complex Societal Problems, Sustainable Living in Development, Ankara, Turkey, April 15-21, 2006.
- Member of Organizing Committee of First Conference of Advanced Mathematical Methods for Finance, Antalya, Turkey, April 26-30, 2006.
- Member of Program Committee of Second Workshop on Algorithmic Techniques for Data Mining 2006 (ATDM 2006), Ben-Gurion University of the Negev, Beer-Sheva, Israel, June 5-7, 2006.
- Member of Organizing Committee of Workshop of Geometric Morphometry, Ankara, Turkey, June 12-16, 2006.
- Member of Organizing Committee of 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006.
- Member of Organizing Committee of Workshop on Networks in Computational Biology, IAM, METU, September 10-12, 2006.
- Member of Program Committee and Plenary Chair of EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; Stream and Session Organizer, Session Chair.
- Member of Organizing Committee of EURO Summer Institute 2006 - Optimization Challenges in Engineering: Methods, Software and Applications, Wittenberg, Germany, August 18 - September 2, 2006.
- Member of Program Committee of International Conference “Computational and Informational Technologies for Research, Engineering and Education”, Pavlodar, Kazakhstan, September 20 - 22, 2006.
- Member in Scientific Committee of The International Workshop of Wavelets to Real World Problems II: IWW2007, Isparta, Turkey, June 7-9, 2007.
- Member of Organizing Committee of Workshop on Sustainable Living at Turkish Rural Countryside, Ankara, Turkey, June 8, 2007.
- Member of Program Committee of A Joint EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; Chair of the Program Committee and Chairman of a session.
- Member of Organizing Committee of PhD Workshop in OR for Development: EURO Working Group OR for Development, Prague, Czech Republic, July 7, 2007.
- Member of Organizing Committee of EURO-CBBM Workshop - Workshop on OR in Computational Biology, Bioinformatics and Medicine, Prague, Czech

Republic, July 8, 2007.

- Member of Organizing Committee of EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; Stream and Session Organizer, Session Chair.
- Member of Program Committee of INFORMS International 2007, Puerto Rico, July 8-11, 2007.
- Member of International Program Committee 8th International Conference CASYS'07, on Computing Anticipatory Systems, International Conferences on Computing Anticipatory Systems in Liege, Belgium, August 6-11, 2007.
- Member of Organizing and Program Committees of Video Conference on Complex Societal Problems, METU, Ankara, and University of Amsterdam, The Netherlands, December 11, 2007.
- Member in Program Committee of Nonconvex Programming: Local and Global Approaches, Theory, Algorithms and Applications, Rouen, France, December 17-21, 2007.
- Member of Program Committee and Member of Organizing Committee and Chair of Organizing Committee of Workshop in Memory of Professor Hayri Körezlioğlu: Recent Developments in Financial Mathematics and Stochastic Calculus, Ankara, Turkey, April 25-26, 2008.
- Member of Organizing Committee of Workshop *The Simulation Tool Box for the Financial Engineer*, in Memory of Professor Hayri Körezlioğlu, Ankara, Turkey, April 23-24, 2008.
- Member of Program Committee of International Workshop on Hybrid Systems: Modeling, Simulation and Optimization, Istanbul, Turkey, May 14-17, 2008.
- Member of Organizing Committee and Program Committee of *Workshop on Complex Societal Problems, Sustainable Living and Development*, Ankara, Turkey, May 16, 2008.
- Member of Organizing Committee and Program Committee of International Symposium on Health Informatics and Bioinformatics (HIBIT '08), Istanbul, Turkey, May 18-20, 2008.
- Member of Program Committee, member of Organizing Committee, Co-Chair and Member of Board of Reviewers of 20th Mini EURO Conference - Continuous Optimization and Knowledge-Based Technologies, Neringa, Lithuania, May 20-23, 2008; SIAM representative and EUROPT representative.
- Member of Organizing Committee of 13th Annual Conference on Biomedical Engineering (13. Biyomedikal Mühendisliği Ulusal Toplantısı), METU, Ankara, Turkey, May 29-31, 2008.
- Member of Organizing Committee of International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008.
- Member of Program Committee of IFIP TC8/WG8.3 Working Conference

- International Conference on Collaborative Decision Making (CDM'08), Manufacture des Tabacs, Toulouse, France, July 1-4, 2008.
- Support for IFORS 2008 Sandton, South Africa, July 13-18, 2008; in correspondence with the Chairs of the Organizing Committee and the Programm Committee, and for EUROPT; Stream Organizer.
 - Member of International Program Committee of International Conference on Power Control and Optimization, Chiang Mai, Thailand, July 18-20, 2008.
 - Member of International Program Committee of Conference “Modelling, Computation and Optimization in Information Systems and Management Sciences” (MCO'08), Metz, France - Luxembourg, September 8-10, 2008.
 - Member of Program and Organizing Committee of Mini EURO Conference “CBBM Conference on Computational Biology, Bioinformatics and Medicine”, Rome, Italy, September 15-17, 2008.
 - Member of Organizing Committee of “Workshop in Game Theory” at the Occasion of the Visit of Prof. Dr. R. Branzei and Prof. Dr. S. Tijs, in the framework of Seminar on Applied Mathematics in Life and Human Sciences and Economy, IAM, METU, January 30, 2009.
 - Member of Programme Committee of the conference Nonlinear Analysis and Applications (nonlinear 09) in memory of Professor Valeriy Melnik, National Technical University of Ukraine, Kiev, Ukraine, April 2-4, 2009.
 - Member of Organizing Committee of HIBIT 2009 - 4th International Symposium on Health Informatics and Bioinformatics, Ankara, Turkey, April 16-17, 2009.
 - Member of Organizing Committee of Preworkshop Seminar Series “Asset Liability Models for Life Insurances”, to the Memory of Professor Jürgen Lehn, METU, Ankara, Turkey, April 22, 2009.
 - Member of Program Committee and member of Organizing Committee of Workshop on Recent Developments in Applied Probability and Statistics, Dedicated to the Memory of Professor Jürgen Lehn, METU, Ankara, Turkey, April 23-24, 2009.
 - Member of Program Committee and member of Organizing Committee (and session chair) of Workshop “Complex Systems - Theory and Applications in Sciences and Engineering”, Ankara, Turkey, May 14-15, 2009.
 - Member of International Reviewers and Program Committee, and of Steering Committee of Second Global Conference on Power and Optimization — PCO2009, Bali, Indonesia, June 1-3, 2009.
 - Member of International Scientific Committee of the 4th OCA, International Conference on Optimization and Control with Applications, Harbin and Wudalianchi, China, June 7-11, 2009.
 - Member of Program Committee and member of Organizing Committee of 7th

- EUROPT Workshop “Advances in Continuous Optimization”, University of Applied Sciences, Remagen, Germany, July 3-4, 2009.
- Member of Program Committee and member of Organizing Committee of A EURO ORD Workshop on OR for Developing Countries — Young Researchers and PhD Symposium, University of Applied Sciences, Remagen, July 4, 2009.
 - Member of Organizing Committee of State-of-the-Art Workshop — Mutual session of special researchers of several Euro working groups OR for Development, Ethics, Decision Making, Methodology of Societal Complexity and others, University of Applied Sciences, Remagen, Germany, July 5, 2009.
 - Member of Programme Committee and member of Organizing Committee of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
 - Member of Program Committee, and of Program Committee of the track “Applied Operations Research and Optimization” at 2009 IEEE-RIVF International Conference on Computing and Telecommunication Technologies — IEEE-RIVF 2009, Da Nang City, Vietnam, July 13-17, 2009.
 - Member of International Programme Committee of 9th International Conference CASYS’09 on Computing Anticipatory Systems, Liege, Belgium, August 3-8, 2009.
 - Member of Programme Committee of 4th Summer School “Achievements and Applications of Contemporary Informatics”, Mathematics and Physics (AACIMP-09), National Technical University of Ukraine (KPI), Kiev, Ukraine, August 5-16, 2009.
 - Member of International Steering Committee and member of International Programme Committee of EURO Mini Conference “Knowledge-Based Technologies and OR for Strategic Decisions of Sustainable Development”, Vilnius, Lithuania, September 30 - October 3, 2009.
 - Member of Organizing Committee and member of the Programme Committee of “14th International Congress on Computational and Applied Mathematics”, Antalya, Turkey, September 29 - October 2, 2009.
 - Member of Organizing Committee and International Program Committee of 3rd Global Conference on Power and Optimization — PCO 2010, Marriott Hotel, Gold Coast, Australia, February 2-4, 2010.
 - Member of Program Committee of the International Symposium on Health Informatics and Bioinformatics (HIBIT), 2010, Antalya, Turkey, April 20-22, 2010.
 - Invited Cluster Chair at ALIO/INFORMS Joint International Meeting 2010, Buenos Aires, Argentina, June 6-9, 2010.
 - Member of Programme Committee and member of Organizing Committee of International Conference Mini EURO Conference “Continuous Optimizati-

- on and Information-Based Technologies in the Financial Sector” (EurOPT-2010), June 23-26, 2010, Izmir, Turkey; Co-Chair of the Organizing Committee of the conference.
- Member of Scientific Committee of International Conference on Modeling, Optimization and Dynamics (ICMOD 2010), Porto, Portugal, Lisbon, Portugal, July 4-7, 2010.
 - Member of Program Committee of the 15th IFIP WG 8.3 International Conference on Decision Support Systems (DSS 2010), July 7-10, 2010.
 - Member of International Organizing Committee of the 8th EUROPT Workshop “Advances in Continuous Optimization”, Aveiro, Portugal, July 9-10, 2010.
 - Member of Programme Committee and member of Organizing Committee of “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, Lisbon, Portugal, July 10, 2010.
 - Member of Programme Committee and member of Organizing Committee of “State-of-the-Art Workshop — a Workshop Related to EURO XXIV / EUROPT / EURO ORD / EUROMSC / Ethics — Mutual Session of Special Researchers of EURO Working Groups: OR and Developing Countries, Ethics, Methodology of Societal Complexity, Optimization, MCDA”, Lisbon, Portugal, July 11, 2010.
 - Member of Programme Committee of EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
 - Member of International Programme Committee of 3rd Conference on Non-linear Science and Complexity (NSC 3rd), July 28-31, 2010, Ankara, Turkey.
 - Member of Programme Committee and member of Organizing Committee of International Conference Operations Research (OR 2010), Annual Conference of the German OR Society, Universität der Bundeswehr, Munich, Germany, September 1-3, 2010.
 - Member of International Organizing Committee of EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
 - Member of Organizing Committee of VI Moscow International Conference on Operations Research (ORM 2010), Moscow, Russia, October 20-25, 2010.
 - Member of Program Committee of IEEE-RIVF International Conference on Computing and Telecommunication Technologies, 2010, Hanoi, Vietnam, November 1-4, 2010.
 - Member of Steering Committee of 4rd Global Conference on Power and Optimization — PCO 2010, Damai Puri, Kuching, Sarawak Borneo, Malaysia, December 2-4, 2010.
 - Member of International Programme Committee of The International Confe-

- rence on Optimization: Techniques and Applications (ICOTA 8), Shanghai, China, December 10-13, 2010.
- Member of Scientific Committee of the *1st School CREMMA-EMRCMA: "Mathematics and Finance"* Euro-Mediterranean Research Center for Mathematics and Its Applications, Tunis, Tunisia, March-May 2011.
 - Member of Program Committee of the *5th International Symposium on Health Informatics and Bioinformatics, HIBIT'11*, Izmir, Turkey, May 2-5, 2011.
 - Member of Program Committee of the *Workshop on Complex Systems and Mathematics* (Mathematics Awareness Month), Ankara, Turkey, May 26, 2011.
 - Member and Chair of Steering Committee of 5th Global Conference on Power and Optimization — PCO 2011, Dubai, La Meridien Hotel, June 1-3, 2011.
 - Member of Program and Organizing Committee of Workshop on "Bioinformatics" at the occasion of visit of Prof. Dr. Röbbbe Wünschiers at IAM of METU, Ankara, Turkey, June 20-24, 2011.
 - Member of Programme Committee of the 9th EUROPT Workshop on Advances in Continuous Optimization, Ballarat, Australia, July 8-9, 2011.
 - Member of Scientific Committee of Summer School *Intensive Programme (IP) in on Mathematical Models in Seismology — SeisMath IP 2011* (Erasmus Intensive Programme), L'Aquila, Italy, July 4-15, 2011.
 - Member in Scientific Programme Committee of IFORS 2011, Melbourne, Australia, July 10-15, 2011.
 - Member in International Committee of International Seminar on Operational Research - InteriOR, Medan, Indonesia, July 27-28, 2011.
 - Member in International Scientific Programme Committee of CASYS'11, 10th International Conference CASYS'11 on Computing Anticipatory Systems, Liège, Belgium, August 8-13, 2011.
 - Member in Programme Committee of 6th International Summer School - 2011 - Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kiev, Ukraine, August 8-20, 2011.
 - Member in International Scientific Programme Committee of 3rd International Conference on Applied Operational Research 2011 (ICAOR 2011), Istanbul, Turkey, August 24-26, 2011.
 - Member in Support (Announcement, Publication) Team of 2011 Kerkenes Festival, Kerkenes, Sorgun, Yozgat and METU, Ankara, Turkey, October 1, 2011.
 - Member in Programme Committee of SMECS 2011 (4th International Workshop on Simulation and Modelling of Engineering & Computational Systems), Barcelona, Spain, October 26-28, 2011.
 - Member in International Program Committee of ICORES 2012 (1st Inter-

- national Conference on Operations Research and Enterprise Systems), Vila-moura, Algarve, Portugal, February 4-6, 2012.
- Member in Program Committee of IEEE RIVF 2012 in Ho Chi Minh City, Vietnam, February 28 - March 1, 2012.
 - Member of Scientific Committee of the 2nd School CREMMA-EMRCMA: *Mathematics and Finance*, Euro-Mediterranean Research Center for Mathematics and Its Applications, Tunis, Tunisia, March 19 - April 6, 2012.
 - Member of Program Committee of the 2nd International Conference Nonlinear Analysis and Applications in the Memory of V. Melnik, NTUU (KPI), Kiev, Ukraine, April 4-6, 2012.
 - Member of Evaluation / Programme Committee of 3. Ulusal Yüksek Basarimli Hesaplama Konferansi, Bilkent University, Ankara, April 12-14, 2012.
 - Member of Programme Committee of 7th International Symposium on Health Informatics and Bioinformatics (HIBIT), 2012, HIBIT 2012, Kapadokya, Nevsehir, Turkey, April 19-22, 2012.
 - Chair of Programme Committee and Co-Chair of Organizing Committee of ECCO 2012 Conference in Antalya, Turkey, April 27-29, 2012; ECCO is the European Chapter on Combinatorial Optimization.
 - Member of Programme Committee of Uluslararası Lojistik ve Tedarik Zinciri Kongresi, Konya University, Turkey, May 10-12, 2012.
 - Member of Organizing Committee of CTW 2012 Munich - 11th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, Munich, Germany, May 29-31, 2012.
 - Member of International Advisory Board of EngOpt 2012 - 3rd International Conference on Engineering Optimization, Rio de Janeiro, Brazil, July 1-5, 2012.
 - Member of Scientific Committee of the Symposium in Honour of Prof. Dr. Ömer Gebizlioglu, June 15, 2012, Ankara University, Ankara, Turkey.
 - Member of International Science Committee of MECO-2012, Mediterranean International Conference on Embedded Computing, June 19-21, 2012, Hotel Princess, Bar, Montenegro.
 - Member of Program Committee of ICCGI 2012, The Seventh International Multi-Conference on Computing in the Global Information Technology, Venice, Italy, June 24-29, 2012.
 - Member of Organizing Committee and member of Program Committee of the 10th EUROPT Workshop on Advances in Continuous Optimization, Shiauliai, Lithuania, July 5-7, 2012.
 - Member of Programme Committee and member of Organizing Committee of “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, Vilnius, Lithuania, July 7, 2012.

- Member of Programme Committee and member of Organizing Committee of “Satellite Workshop of The State of The Art on problem handling and decision making”, Vilnius, Lithuania, July 8, 2012.
- Member of Programme Committee of EURO XXV, Vilnius, Lithuania, July 8-11, 2012.
- Advisory Committee Chair of ICIDMP2012, 2012 International Conference on Industrial Design and Mechanical Power, Huangshan, China, July 10-12, 2012.
- Member of Program Committee of IADIS European Conference Data Mining 2012, Lisbon, Portugal, July 21-23, 2012.
- Member of Steering Committee of 6th Global Conference on Power and Optimization — PCO 2012, Las Vegas, USA, August 6-8, 2012, 2012.
- Member of Organising Committee of Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Nottingham, UK, September 13-15, 2012.
- Member of Programme Committee of *1st International Conference on Operations Research and Enterprise Systems (ICORES 2012)*, Singapore, September 12-13, 2012.
- Member of Programme Committee of *International Conference on Applied and Computational Mathematics (ICACM)* on the occasion of the 10th Anniversary of the Foundation of IAM, METU, Ankara, Turkey, October 3-6, 2012.
- Member of International Advisory Committee of ICORD 2012 — Workshop: Problem Structuring Methods, Djerba Island, Tunisia, October 12-13, 2012.
- Member of International Programme Committee of *International Conference on Operations Research and Enterprise Systems (ICORES 2013)*, Barcelona, Spain, February 16-18, 2013.
- Member of Scientific Committee of *International Istanbul Finance Congress 2013 (IIFC2013)*, Kadir Has University, Istanbul, Turkey, May 30-31, 2013.
- Member of Programme Committee of *2nd Mediterranean Conference on Embedded Computing (MECO)*, June 16-20, 2013, Budva, Montenegro.
- Member of Programme Committee of *EUROPT 2013 - Meeting of the Continuous Optimization Group of EURO*, Florence, Italy, June 26-28, 2013.
- Member of Programme Committee of joint ICORD / EWG ORD workshop *OR: Addressing Issues of Development*, Rome, Italy, June 27-28, 2013.
- Member of the Workshop Committee of the State-of-the-Art Workshop of several EURO Working Groups, Rome, Italy, July 1, 2013
- Member of Programme Committee of *EURO-INFORMS MMXIII, 26th European Conference on Operational Research*, Rome, Italy, July 1-4, 2013.

- Member of the Technical Program Committee of *The Eighth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2013)*, Nice, France, July 21- 26, 2013.
- Member of Programme Committee of the *IADIS European Conference Data Mining 2013*, Prague, Czech Republic, July 22-24, 2013.
- Member of Advisory Board / Programme Committee of *VIII Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics (AACIMP-2013)* will take place in August 1-17, 2013, Kyiv Polytechnic Institute in Kiev, Ukraine.
- Member of Technical Program Committee of *The 2nd International Conference on Industrial Design and Mechanics Power (ICIDMP2013)*, Nanjing, China, August 24-25, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Prague, Czech Republic, August 25-27, 2013.
- Member of International Scientific Committee of *InteriOR (International Conference on Operational Research) 2013*, Medan, Indonesia, August 25-28, 2013.
- Member of Programme Committee of *2nd International Conference on Operations Research and Enterprise Systems (ICORES 2013)*, Barcelona, Spain, September 16-18, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Kota Kinabalu, Malaysia, October 7-9, 2013.
- Member of International Scientific Program Committee of the *11th International Conference on Approximation and Optimization in the Caribbean*, Puebla, Mexico, October 13-18, 2013.
- Member of Program Committee of the *VII Moscow International Conference on Operations Research (ORM 2013)*, Moscow, Russia, October 15-19, 2013.
- Member of Program Committee of *The 10th IEEE RIVF International Conference on Computing and Communication Technologies (RIVF-2013)*, Hanoi, Vietnam, November 10-13, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Yangon, Myanmar, December 2-3, 2013.
- Member of Program Committee of *IAM Alumni Meeting: Workshop on Finance and Risk Program*, METU, Ankara, Turkey, December 7, 2013.
- Member of International Program Committee of *9th International Conference on Optimization: Techniques and Applications (ICOTA-9)*, Taipei, Taiwan, December 13-15, 2013.
- Member of International Programme Committee of EURO Mini Conference

- on Optimization in the Natural Sciences (EURO mini 2014), Aveiro, Portugal, February 5-9, 2014.
- Member of Scientific Committee of 3rd International Conference on Dynamics, Games and Science, Porto, Portugal, February 17-21, 2014.
 - Member of International Programme Committee of *International Conference on Operations Research and Enterprise Systems (ICORES 2014)*, ESEO, Anger, Loire Valley, France, March 6-8, 2014.
 - Member of Programme Committee of 11th International Conference on Applied Mathematical Optimization and Modelling (APMOD 2014), Warwick, Coventry, United Kingdom, April 9-11, 2014.
 - Member of Organizing Committee of ECCO-CO XXVII (European Chapter on Combinatorial Optimization), May 1-3, 2014, Munich, Germany.
 - Member of Program Committee of 9th International Statistics Day Symposium ISDS 2014, Antalya, Turkey, May 10-14, 2014.
 - Member of Organizing Committee of One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.
 - Member of Program Committee of the 11th International Conference on Computational Management Science (CMS 2014), Lisbon, Portugal, May 29-31, 2014.
 - Member of International Advisory Board of *Special Interest Conference on Engineering and Applied Sciences Optimization (OPTI 2014)*, Kos Island, Greece, June 4-6, 2014.
 - Member of International Program Committee of International Conference on Industrial Design and Mechanics Power (ICIDMP2014), Beijing, China, June 21-22, 2014.
 - Member of Program Committee of International Work-Conference on Time Series (ITISE 2014), Granada, Spain, June 25-27, 2014.
 - Member of Program Committee and Organizing Committee of EURO Working Group Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan, Poland, June, 26-28, 2014.
 - Member of Program Committee of 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10-12, 2014.
 - Member of Program Committee of the Joint ICORD - EWG-ORD Workshop in Lleida, Spain, July 11-12, 2014.
 - Member of Workshop Committee of the Workshop of The State of The Art, Barcelona, July 13-18, 2014.
 - Member of Program Committee of 20th IFORS Conference, Barcelona, July 13-18, 2014.

- Member of International Steering Committee of 8th PCO (Global Conference on Power Control & Optimization), Krabi, Thailand, July 13-14, 2014.
- Member of Program Committee of the 8th European Conference on Data Mining 2014 (ECDM 2014) Conference, Lisbon, Portugal, July 15-17, 2014.
- Member of International Advisory Board of 4th International Conference on Engineering Optimization (EngOpt 2014), Lisbon, Portugal, September 7-11, 2014.
- Member of Scientific Committee of International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
- Member of International Program Committee of First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
- Member of the Program Committee of The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014), Singapore, November 10-12, 2014.
- Member of Program Committee of RIVF-2015 (The 11th IEEE-RIVF International Conference on Computing and Communication Technologies), Can Tho City, Vietnam, January 25-28, 2015.
- Member of the Program Committee of ACIIDS 2015 (7th Asian Conference on Intelligent Information and Database Systems), Bali, Indonesia, March 23-25, 2015.
- Member of the Program Committee of “Nonlinear Analysis and Applications” - 3rd Conference in Memory of Corresponding Member of National Academy of Sciences of Ukraine Valery Sergeevich Menik (1952 - 2007), Kiev, Ukraine, April 1-3, 2015.
- Member of Organizing Committee (Co-chair) and Program Committee of Joint ORSC-EURO Conference 2015 on Continuous Optimization, Shanghai, China, May 10-12, 2015.
- Member of Organizing Committee (Co-chair) of 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
- Member of International Program Committee of the MCO 2015 Conference, Metz, France, May 11-13, 2015.
- Member of Program Committee of The 13th EUROPT Workshop on Continuous Optimization, Edinburgh, UK, July 8-10, 2015.
- Member of Workshop Committee (OC-PC) of EWG ORD - IFORS Workshop on OR for Development, Glasgow, Scotland, July 9-10, 2015.
- Member of Workshop Committee (OC-PC) of State-of-the-Art Workshop of several EURO Working Groups, Glasgow, Scotland, July 12, 2015.

- Member of Program Committee of *EURO 2015, 27th European Conference on Operational Research*, Glasgow, United Kingdom, July 12-15, 2015.
- Member of the Program Committee of 9th European Conference on Data Mining 2015 (DM 2015), Las Palmas de Gran Canaria, Spain, July 22-24, 2015.
- Member of International Scientific Committee of *InteriOR 2015*, The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- Member of Advisory Board of The 35th National Congress of Industrial Engineering and Operations Research (YAEM 2015), METU, Ankara, Turkey, September 9-11, 2015.
- Member of Program Committee of SOR '15 — The 13th International Symposium on Operations Research in Slovenia, Bled, Slovenia 23-25, September 2015.
- Member of Steering Committee of ICEMIS 2015 - The International Conference on Engineering & MIS 2015, Istanbul, Turkey, September 24-26, 2015.
- Member of the International Steering Committee of International Festival of Science, Technology, Engineering and Mathematics (STEMfest), September 27 - October 3, 2015, Saskatoon Canada, including 9th Power Control and Optimisation Conference (PCO Global), September 27-29, 2015.
- Member of Scientific Committee of the 2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015), Kemer, Antalya, Turkey, October 14-19, 2015.
- Member of Program Committee of *International Conference on Computers & Industrial Engineering (CIE45)*, Metz, France Université de Lorraine LCOMS, October 28-30, 2015.
- Member of Program Committee of *The International Conference on Operational Research for Development 2015 (ICORD 2015)*, December 3-4, 2005, Uswetakeiyava (North of Colombo), Sri Lanka.
- Member of Scientific Committee of The 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, January 25-26, 2016.
- Member of Program Committee of *8th Lithuanian Young Scientist Conference "Operational Research in Business, Engineering and Informational Technologies (LOTD-2016)"*, Kaunas, Lithuania, April 8, 2016.
- Member of Scientific Program Committee of International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications (IC-SMHD-2016), Nevsehir, Cappadocia, Turkey, May 18-21, 2016.
- Member of Program Committee of *Applied Mathematical Programming and Modelling (APMOD 2016)*, Brno, Czech Republic, June 8-10, 2016.
- Member of Organizing Committee of EngOpt 2016, Iguassu Falls, Brazil, June

19-23, 2016.

- Member of Scientific Committee of NUMTA 2016, the 2nd International Conference and Summer School *Numerical Computations: Theory and Algorithms*, Pizzo Calabro, Calabria, Italy, June 19-25, 2016.
- Member of Program Committee of EUROPT 2016, Warsaw, Poland, July 1-2, 2016.
- Member of Conference Committee of EURO ORD Workshop on OR for Development, Poznan, Poland, July 1-2, 2016.
- Member of Workshop Committee of State-of-the-Art Workshop, Poznan, Poland, July 3, 2016.
- Member of Program Committee of EURO 2016, Poznan, Poland, July 3-6, 2016.
- Member of International Program Committee of 10th International Conference on Optimization: Techniques and Applications (10th ICOTA), Ulaanbaatar, Mongolia, July 23-26, 2016.
- Member of Steering Committee of ICEMIS 2016, Ibn Zoher University, Agadir, Morocco, September 22-24, 2016.
- Member of Scientific Committee of ICCESSEN 2016 - 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
- Member of Program Committee of the VIII Moscow International Conference on Operations Research (ORM2016), Moscow, Russia, October 17-22, 2016.
- Member of Organizing Committee and Honorary Chair of COMPSE 2016 - First EAI Conference on Computer Science and Engineering, Penang, Malaysia, November 10-12, 2016.
- Member of Program Committee of The 12th IEEE-RIVF International Conference on Computing and Communication Technologies, Ha Noi, Vietnam, November 7-9, 2016.
- Member of Program Committee of IESM'16 - 3rd International Conference on Industrial Engineering & Sustainable Management, Isfahan, Iran, December 13-15, 2016.
- Member of Program Committee of The 2017 International Conference on Advanced Technologies Enhancing Education (ICAT2E2017), Qingdao, China, March 18-20, 2017.
- Member of International Scientific Committee of International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- Member of Scientific Committee of the 3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC-2017), Konya, Turkey,

May 24-26, 2017.

- Member of the Technical Program Committee of Energy Efficient Networking, Platforms, Systems and Protocols for WSNs an IoT, EEN-PSP workshop at The 13th IWCMC 2017 Conference in Valencia, Spain, June 26-30, 2017.
- Member of Program Committee of the 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- Member of Organizing Committee of the International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- Member of Program Committee of the 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- Member of the International Scientific Committee / International Board of *InteriOR 2017 (The 4th International Conference on Operational Research)*, Medan, Indonesia, Medan, August 21-23, 2017.
- Member of the Scientific Committee of *1st IconICT (The International Conference on Information and Communication Technologies) 2017*, HARAPAN, Medan, Indonesia, August 25-27, 2017.
- Member of Publicity Committee of The International Conference on Engineering and Technology 2017, Akdeniz University, Antalya, Turkey, August 21-23, 2017.
- Member of International Scientific Committee of 2nd Global Conference on Theory and Applications of OR/OM for Sustainability (GCTAOS), Beijing, China, September 6-8, 2017.
- Member of Scientific Committee of ICCESEN 2017 - 4th International Conference on Computational and Experimental Science and Engineering, Side, Antalya, Turkey, October 4-8, 2017.
- Member of Program Committee of COMPSE 2017, 2nd EAI International Conference on Computer Science and Engineering, Bangkok, Thailand, November 34, 2017.
- Member of the Advisory Committee of The Second Pacific Optimization Conference (POC 2017), Perth, Australia, December 5-7, 2017.
- Member of Program Committee of 4th International Conference on Optimization Methods and Software, Havana, Cuba, December 16-20, 2017.
- Member of Scientific Committee of International Days of Competences for the Future, Poznan University of Technology, Poznan, Poland, March 12-14, 2018.
- Member of Program Committee of 61th Meeting of EURO Working Group for Commodities and Financial Modelling, Kaunas, Lithuania, May 16-18, 2018.
- Invited Cluster Chair on *Data Mining* at INFORMS International, Taipei,

Taiwan, June 17-20, 2018.

- Member of International Scientific Committee of International Conference on Applied Mathematics in Engineering (ICAME18), Burhaniye/Balikesir, Turkey, June 27-29, 2018.
- Member of Scientific Committee of EWG-ORD 2018 Workshop, Madrid, Spain, July 5-6, 2018.
- Member of Program Committee of EURO 2018, Valencia, Spain, July 8-10, 2018.
- Member of Program Committee of EUROPT 2018 - 16th EUROPT Workshop on Advances in Continuous Optimization, Almeria, Spain, July 12-13, 2018.
- Member of International Scientific Committee of EngOpt 2018 - 6th International Conference on Engineering Optimization, Lisbon, Portugal, September 17-19, 2018.
- Honorary Chair of ICO 2018 — 1st International Conference on Intelligent Computing & Optimization 2018, Pattaya, Thailand, October 4-5, 2018.
- Member and a Chairman of Scientific Committee of International Conference on Computer Science and Applied Mathematics, Parapat, Sumatra, Indonesia, October 11-13, 2018.
- Member of Scientific Committee of ICCESSEN 2018 - 5th International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, October 12-16, 2018.
- Member of Program Committee of ORM 2018 - Operations Research Moscow 2018, Russia, October 22-27, 2018.
- Member of Scientific Committee of IDSES'19 - International Data Science & Engineering Symposium, Safranbolu, Turkey, May 2019, 2-3.
- Member of Scientific Committee of the 18th International Business Congress, Osmaniye Korkut Ata University, Turkey, May 2019, 2-4.
- Member of Technical Committee of MSIE 2019 - 2019 International Conference on Management Science and Industrial Engineering, Phuket, Thailand, May 24-26, 2019.
- Member of Scientific Program Committee of EWG-ORD 2019 - Renewable: Energy, Health, and Sustainability, Dublin, June 20, 2019.
- Member of Program Committee of EURO 2019, Dublin, Ireland, June 23-26, 2019.
- Member of Program Committee of International Symposium on Implementations of Digital Industry and Management of Digital Transformation, Konya, Turkey, June 25-26, 2019.
- Member of Program Committee of EUROPT 2018 - 17th EUROPT Workshop on Advances in Continuous Optimization, June 28-29, 2019, ICELab,

University of Strathclyde, Glasgow, UK.

6.2 Future Events (in Preparation)

- Member of Program Committee of The 6th World Congress on Global Optimization (WCGO 2019), Metz, France, July 8-10, 2019.
- Member of Program committee of AI2SD'2019 (International Conference on Advanced Intelligent Systems for Sustainable Development), Marrakech, Morocco, July 8-11, 2019.
- Member of International Board and of Scientific Committee of InterIOR 2019 (The 5th International Conference on Operational Research), Medan, Indonesia, August 20-21, 2019.
- Member of Program Committee of The International Conference and EURO Mini Conference - MSBC-2019, Vilnius, Lithuania, September 18-20, 2019.
- Member of Scientific Advisory Committee of y-BIS 2019: Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics, September 25-28, 2019, Mimar Sinan Fine Arts University Bomonti Campus, Istanbul, Turkey.
- Member of Program Committee IFORS 2020 22nd International Federation of Operational Research Societies Conference, June 21-26, 2020, Seoul, Korea.
- Member of International Scientific of ICIE 2020 — International Conference Innovation in Engineering, Guimaraes, Portugal, July 8-10, 2020.
- Further Invitations to CAS-MPG Partner Institute on Computational Biology, Shanghai, China, to Fudan University, Shanghai (China), Taishan Scholars Academic Forum (Shandong, China), The Chinese University of Hong Kong, University of Braunschweig, University of Marburg, Munich University of Technology and Universität der Bundeswehr, München, Max Planck Institutes in Magdeburg, Leipzig and Stuttgart (Germany), University of Amsterdam (The Netherlands), Karl-Franzens University, Graz, and University of Vienna (Austria), LITA - University Paul Verlaine-Metz (France), University or Economics, Prague, and University of Zlin (Czech Republic), Poznan University of Technology (Poland), University of Aveiro and University of Minho, Braga (Portugal), University of Bristol, University of Birmingham, University of Strathclyde, Glasgow, and University of Edinburgh (United Kingdom), Technion, Haifa (Israel), ORT Braude College, Karmiel (Israel), Universidad de las Americas, UDLA, Puebla (Mexico), Memorial University, New Foundland, and McMaster University, Hamilton (Canada), University of Florida, Gainesville (USA), Institute of Computational Technologies at Novosibirsk Scientific Centre (Siberian Branch of Russian Academy of Sciences), Higher School of Economics (Moscow), University of Kazan (Russia), Lomonosov Moscow State University, and Computing Centre of the Russian Academy of Sciences, Moscow (Russia), Al-Farabi Kazakh National University (Almaty, Kazakstan), Universitas Sumatera Utara, Sekolah Tinggi Teknik Harapan

(STTH), UINSU, Pance Budi, UMSU (all in Medan, Sumatra, Indonesia), Tunas Bangsa Computer Management Academy (Siantar, Sumatra, Indonesia), University of Ballarat (Australia), University of New South Wales (Sydney, Australia) and University of South Australia and Flinders University (Adelaide, Australia), National Academy of Aviation of Azerbaijan (Baku), National Taiwan University and National Taiwan University of Science and Technology (Taipei, Taiwan), University of Salerno (Italy), Hacettepe University (Ankara, Turkey), Atatürk University (Erzurum), Balikesir University (Balikesir) and Mimar Sinan Fine Arts University (Istanbul) (Turkey), Cag University (Tarsus), Dicle University (Diyarbakir), Selcuk University (Konya) and Süleyman Demirel University (Isparta) and Universidade Federal do Rio de Janeiro (Brazil) University to Kyoto, Konan University, Kobe, Kansai University, Osaka (all in Japan), University of Vilnius (Lithuania), Stellenbosch University (South Africa), University of Maribor (Slovenia), University of Technology, Malaysia (UTM), Sultan Qaboos University (Oman), Kansai University (Osaka, Japan), Universiti Teknologi Malaysia (UTM) (Johor Bahru, Malaysia).

Gerhard-Wilhelm Weber, Poznan, July 5, 2019

I thank my Lord Jesus Christ.