

# 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:** Institute of Applied Mathematics, Middle East Technical University

**Affiliations:** Department of Financial Mathematics, Department of Scientific Computing, Department of Actuarial Sciences; Assistant to the Director

**Further Affiliations:** Faculty of Economics, Business and Law, University of Siegen, Germany (Permanent Guest Professor);  
Center for Research on Optimization and Control (CEOC), University of Aveiro, Portugal (Collaborator);  
Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia (Researcher);  
Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey (Member)

**Cip code / town:** 06531 Ankara, Turkey

**E-Mail:** gweber@metu.edu.tr

**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 at University of Siegen, Germany

**1980-1986** Studies of mathematics and (second subject) economics 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 lecture<sup>1</sup> 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)

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<sup>1</sup> **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*

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

- since childhood** Assistance in the parents' bakery and food shop in Bad Berleburg
- 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 Control 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“

**since December 30, 2002** Full Professor at Institute of Applied Mathematics Middle East Technical University (METU) Ankara, Turkey (begin of teaching: March 1, 2003)<sup>2</sup>

At IAM of METU, I am a leader 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 May 2007** I am also member of the Biomedical Engineering Program in the Graduate School of Natural and Applied Sciences of METU;

**since August 20, 2007** *Assistant to the Director* of IAM, METU.

**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.

**August 11, 2009** Appointment to *Researcher (Project Leader)* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia.

## 1.5 Special Knowledge and Abilities

**Languages:** *German, English:* advanced in reading, writing, speaking,  
*French:* good foundations,  
*Turkish:* foundations.

**Computer abilities:** Basic, Fortran, Pascal; editing by TeX, LaTeX, Word;

**Further experiences:** supervision and support of students and doctorands; work in commissions, e.g., *diploma evaluation committee* (1995-2000); administration and management; co-editing and guest editing of international scientific journals; organization and

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

leading of an international working group (EURO Continuous Optimization Working Group (EUROPT; [www.iam.metu.edu.tr/EUROPT/](http://www.iam.metu.edu.tr/EUROPT/)); editing and guest-editing journals; refereeing; scientific invitations and stays all over the world; visit of many international conferences, hereby, about 20 invitations to plenary/invited lectures, further semi-plenary lectures; *(co-) organisation of workshops, of summer institutes, conferences and symposia*; foundation and development of scientific, social, etc. working communittees, e.g., EUROPT's application for the foundation of new EURO Working Groups *Operational Research for Development* and *Operational Research in Computational Biology, Bioinformatics and Medicine* which became accepted by EURO and founded in 2006.

## 1.6 Scientific Working Fields

**Research Areas:** Mathematical programming, nonlinear (continuous) optimization (especially: semi-infinite optimization, convex optimization, conic programming, nonsmooth optimization, optimization under uncertainty), financial mathematics, applied probability, mathematical and computational statistics, theory of optimal control of ordinary (some) partial differential equations, mathematical modelling, Operations Research, quality analysis in manufacturing and finance, computational biology and bioinformatics, environmental and climate modeling, complexity theory, inverse problems and their numerical aspects, dynamical systems, discrete tomography, special aspects of discrete mathematics, discrete optimization and their applications, data mining, problems of development

**Memberships:**

- EUROPT (EURO Working Group on Continuous Optimization), in
- 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 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),
- 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”,

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.

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

**Co-Editor**

of *Journal of Computational Technologies* (2000-2007), of *Organizacija (Organization - Journal of Management, Information Systems and Human Resources)* (since beginning of 2008) and

*Global Journal of Technology and Optimization* (since February 2009);

invitation to Editorial Boards in future of the journals *Optimization* and *Central European Journal of Operations Research (CEJOR)*.

**Guest Editor**

of *European Journal of Operational Research (EJOR)*, *Discrete Applied Mathematics (DAM)*, *Central European Journal of Operations Research (CEJOR)*, of the journal *Optimization*, of *Journal of Computational Technologies*, of the journal *Organizacija* and *Dynamics of Continuous, Discrete and Impulsive Systems (Series B) (DCDIS-B)* (cf. 2.2)

**Awards, Honours:**

- *three Calls on Professorships* (at METU, Ankara, at German University in Cairo, Egypt, and (associate level) University of Ballarat, Australia); two 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)<sup>3</sup>;
- *Best Paper Award* for the paper and joint presentation: D. Lozuvan, S.W. Pickl and G.-W. Weber, *Optimization, monotonicity and the determination of Nash equilibria*, at the conference *Computing Anticipatory Systems*,

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<sup>3</sup> 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

*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 Professor from many international places (recently, e.g., from Austria, Australia, Belgium, Canada, China, Germany, Israel, Malaysia, Kazakhstan, Poland, Portugal, Spain and the UK).
- Insignia (medal award) by *GATA* (Turkish Medical School and Hospital of Armed Forces, Ankara, Turkey), January 2006;
- Chair, now: Past Chair, of EUROPT, founder of the EURO Working Groups “OR in Computational Biology, Bioinformatics and Medicine” (now: Past Chair) and “OR for Development” (now: Vice Chair and member of Advisory Board) (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,
- 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”.
- Call for *External Reviewer at Nanyang Technical University, Singapore* (July 2007),

- *(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 (appointment at March 31, 2008).
- *Researcher* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia (appointment at August 11, 2009).
- Two appointment as *SIAM Representative* at international conferences: Joint EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007, and Mini 20th EURO Conference, May 20-23, 2008.
- 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.
- Special service award at *IFORS 2008*, Sandton, South Africa, July 13-18, 2008.
- *Best Lecturer* at the Conference “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 and 2008.
- *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).
- About 22 invitations to *invited/plenary lectures* at international conferences and workshops, several (e.g., semi-plenary) invitations; about 40 times to *Organization Committees*, three times *Advisor* or in *Advisory Board*, about 40 invitations to *Scientific/Program Committees*, among of them to EURO XXI in Reykjavik, Iceland, 2006, where I was Plenary Chair, EURO XXIII in Bonn, Germany, 2009, EURO XXIV in Lisbon, Portugal, and to EURO XXII in Prague, Czech Republic, 2007, where I was in OC, to INFORMS International 2007, Puerto Rico, 2007, where I was in PC, EURO XXIII in Bonn, Germany, where I am in OC and in PC responsible for the streams, 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/](http://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 Association 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

- 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.

### 2.2 Edition of Journals and Special Issues

- 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.
- Invitation to Editorial Boards in future of the journal Optimization.
- Invitation to Editorial Boards in future of the Central European Journal of Operations Research (CEJOR).
- 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 Pro-*

*ceedings 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).
- D. DeTombe and G.-W. Weber, *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, *Special Issue on Optimization and Dynamics in Finance*, of DCDIS-B, Dynamics of Continuous, Discrete and Impulsive Systems (Series B).

A special issue of Organizacija (Organization - Journal of Management, Information Systems and Human Resources), *Special Issue on Sustainability, Education, and Migration*, a special issue of Optimization *Advances of Continuous Optimization* and a special issue of CEJOR (Central European Journal of Operations Research) on Environment and Electricity Markets (all at the occasion of EURO XXIII 2009 in Bonn, Germany) are in preparation.

### 2.3 Publications in Refereed Journals

- H.Th. Jongen and G.-W. Weber, On parametric nonlinear programming, *Annals of Operations Research* 27 (1990) 253-284.
- H.Th. Jongen and G.-W. Weber, Nonlinear optimization: Characterization of structural stability, *Journal of Global Optimization* 1 (1991) 47-64.
- H.Th. Jongen, F. Twilt and G.-W. Weber, Semi-infinite optimization: Structure and stability of the feasible set, *Journal of Optimization Theory and*

- Applications 72 (1992) 529-552.
- H.Th. Jongen, J.-J. Rückmann and G.-W. Weber, One-parametric semi-infinite optimization: On the stability of the feasible set, *SIAM Journal of Optimization* 4 (1994) 637-648.
  - G.-W. Weber, On the topology of parametric optimal control, *Journal of the Australian Mathematical Society, Series B* 39 (1997) 1-35.
  - J.-J. Rückmann and G.-W. Weber, Semi-infinite optimization: Excisional stability of noncompact feasible sets, *Sibirskij Matematicheskij Zhurnal* 39 (1998) 129-145 (in Russian).
  - The previous article is also published in English: in *Siberian Mathematical Journal* 39 (1998) 113-125.
  - G.-W. Weber, Optimal control theory: On the global structure and connections with optimization, Part 1, *Journal of Computational Technologies* 4, 2 (1999) 3-25.
  - G.-W. Weber, Generalized semi-infinite optimization: On some foundations, *Journal of Computational Technologies* 4, 3 (1999) 41-61.
  - S. Pickl and G.-W. Weber, An algorithmic approach by linear programming problems in generalized semi-infinite optimization, *Journal of Computational Technologies* 5, 3 (2000) 62-82.
  - E. Kropat, S. Pickl, A. Röbler and G.-W. Weber, A new algorithm from semi-infinite optimization for a problem of time-minimal control, *Journal of Computational Technologies* 5, 4 (2000) 67-81.
  - S. Pickl and G.-W. Weber, Optimization of a time-discrete nonlinear dynamical system from a problem of ecology - an analytical and numerical approach, *Journal of Computational Technologies* 6, 1 (2001) 43-52.
  - G.-W. Weber, Structural stability in generalized semi-infinite optimization, *Journal of Computational Technologies* 6, 2 (2001) 25-46.
  - D. Akume and G.-W. Weber, Cluster algorithms: theory and methods, *Journal of Computational Technologies* 7, 1 (2002) 15-27.
  - K. Meer and G.-W. Weber, Some aspects of studying an optimization or decision problem in different computational models, *European Journal of Operational Research* 143, 2 (2002) 406-418.
  - G.-W. Weber, Structural stability in generalized semi-infinite optimization, *Journal of Computational Technologies* 6, 2 (2001) 25-46.
  - E. Kropat, S. Pickl, A. Röbler and G.-W. Weber, On theoretical and practical relations between discrete optimization and nonlinear optimization, in special issue *Colloquy Optimization – Structure and Stability of Dynamical Systems* (at the occasion of the colloquy with the same name, Cologne, October 2000) of *Journal of Computational Technologies* 7, Special Issue (2002) 27-62.

- S. Pickl and G.-W. Weber, A note on a time-discrete dynamical system and combinatorial-transversal structures, in *Colloquy Optimization – Structure and Stability of Dynamical Systems* (at the occasion of the colloquy with the same name, Cologne, October 2000) of *Journal of Computational Technologies* 7, Special Issue (2002) 78-86.
- G.-W. Weber, Impulses from results of inverse problems to discrete tomography, in Part 1 of common special issue of *Journal of Computational Technologies* 7 (2002) and *The Bulletin of Kazakh National University* 32, 4 (Mathematics, Mechanics and Informatics Issue; 2002), 175-177, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (September 2002).
- G.-W. Weber, Generalized semi-infinite optimization: theory and applications in optimal control and discrete optimization, *Journal of Statistics and Management Systems* 5 (2002) 359-388.
- G.-W. Weber, On the topology of generalized semi-infinite optimization, in: special issue *Optimization* (at the occasion of *French-German-Italian Conference on Optimization* in Montpellier, September 2000) of *Journal of Convex Analysis* 9, 2 (2002) 665-691.
- 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, *Electronic Notes in Discrete Mathematics* 13 (2003).
- D. Akume, B. Luderer and G.-W. Weber, Pricing and hedging of swaptions, *Journal of Computational Technologies* 8, 4 (2003) 5-14.
- D. Akume, B. Luderer and G.-W. Weber, Bewertung und Hedging von Swaptions, *Zeitschrift Wirtschafts-Wissenschaftliches Studium (WiSt)* 12 (December 2003) 635-640.
- J. Gebert, M. Lätsch, E. Ming Poh Quek and G.-W. Weber, Analyzing and optimizing genetic network structure via path-finding, *Journal of Computational Technologies* 9, 3 (2004) 3-12.
- M.U. Akhmet, J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, Algorithmic computational biology: stability analysis of gene-expression patterns, in: part 1 of common special issue of *Journal of Computational Technologies* 9 (2004) ...
- and of *The Bulletin of Kazakh National University* 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 10-17, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
- M.U. Akhmet, S.W. Pickl and G.-W. Weber, Multi-stage dynamic games, in: part 1 of common special issue of *Journal of Computational Technologies* 9 (2004) ...

- and of The Bulletin of Kazakh National University 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 18-21, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
- G.-W. Weber and Ö. Yasar, Discrete tomography: A modern inverse problem reconsidered by optimization, in: part 1 of common special issue of Journal of Computational Technologies 9 (2004) ...
- and of The Bulletin of Kazakh National University 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 115-121, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
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- T. Ergenc, S.W. Pickl, N. Radde and G.-W. Weber, Generalized semi-infinite optimization and anticipatory systems, International Journal of Computing Anticipatory Systems 15 (2004) 3-30.
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## 2.6 Diploma Thesis

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  - T. Paksoy, E. Özceylan and G.-W. Weber, A multi-objective mixed integer programming model for multi echelon supply chain network design and optimization, preprint at IAM, METU, submitted to the CEJOR special issue at the occasion of EURO XXIII 2009, July 5-8, Bonn, Germany.
  - 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, submitted to the CEJOR special issue at the occasion of EURO XXIII 2009, July 5-8, Bonn, Germany.
  - T. Paksoy, E. Özceylan and G.-W. Weber, Modeling facility location and supplier selection with supplier's product quality and contract fee for a strategic supply chain design, preprint at IAM, METU, submitted to the special issue of Journal of Computational and Applied Mathematics (JCAM) at the occasion of ICCAM 2009 - 14th International Congress on Computational and Applied Mathematics, Antalya, Trkiye, September 29-October 2, 2009.

## 2.8 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.

## 2.9 Reports

- W. Domschke, S. Pickl and G.-W. Weber, „... es warten noch viele mathematische Probleme auf Sie“, report about the conference „Mathematische Modellierung und Optimierung“ at the occasion of the retirement of Professor Werner Krabs, OR-News 7 (1999) 18-19.
- G.-W. Weber, „Optimierung ist wichtig!“, report about Workshop „Smooth and Nonsmooth Optimization – Theory and Applications“, OR-News 13 (2001) 68-69.
- F. Jarre, B. Karasözen, A. Rubinov, T. Terlaky and G.-W. Weber, ... *Optimization is Coming Home ...* - Scientific Insights and Outlooks on Isle of Sun, Rhodes, Report about EUROPT *Workshop on Challenges of Continuous Optimization in Theory and Applications*, July 2-3, 2004, Rhodes, Greece, Optimization Research Bridge (ORB; Pacific Optimization Research Activity Group) 15 (September 2004).
- G.-W. Weber, ... *Optimization is Coming Home ...* - Wissenschaftliche Ein- und Ausblicke auf der Sonneninsel Rhodos - Bericht über den EUROPT *Workshop on Challenges of Continuous Optimization in Theory and Applications*, 2.-3. Juli 2004, Rhodos, Griechenland, OR-News (German OR Society) 22 (November 2004) 54-56.
- G. Wäscher and G.-W. Weber, Was hat Sie eigentlich nach Ankara „verschlagen“, Herr Weber?, interview by Gerhard Wäscher, president of German Operations Research Society (GOR), OR-News 23 (März 2005) 71-74.
- G.-W. Weber, „... Hungary ... , csók, csók!“  
- Wissenschaftlicher Austausch und Zukunftsimpulse aus dem Herzen Europas - Bericht über die 17. EURO Mini-Konferenz „Continuous Optimization in the Industry“, 29. Juni - 1. Juli 2005, Pécs, Ungarn, OR-News 25 (German OR Society) 69-71.
- G.-W. Weber, *Book Review – Bernt Oksendal and Agnes Sulem (2005), Applied Stochastic Control of Jump Diffusions, ISBN 3-540-14023-9, Springer Berlin*, Math. Meth. Oper. Res. 62, 2 (2005) 345-346.
- G.-W. Weber, „Vtejte v Praze!“ - „Welcome to Prague!“ - Scientific Exchange and Friendship in the Golden City of Prague, Report about Joint EUROPT-

- OMS Conference - 2nd Conference on Optimization Methods & Software and 6th EUROPT Workshop on Advances in Continuous Optimization, July 4-7, 2007, Prague, Czech Republic, OR News 31 (2007) 60-62.
- L. Sakalauskas and G.-W. Weber, Herzlich Willkommen an Kurischer Nehrung und Kurischem Haff, Modern OR Where Thomas Mann Loved to Spend Times of (Re-) Creation, EUROPT-2008 — 20th Mini EURO Conference “Continuous Optimization and Knowledge-Based Technologies”, May 20-24, 2008, Nida, Neringa, Lithuania, in OR-News 34 (German OR Society) (2008) 88-89.
  - G.-W. Weber, Scientific workshops in honour of Professor Hayri Körezlioğlu, report about Workshop “Recent Developments in Financial Mathematics and Stochastic Calculus”, April 25-26, 2008, and the Pre-Workshop Seminar Series Workshop “The Simulation Tool Box for the Financial Engineer”, April 23-24, 2008, OR-News 34 (German OR Society) (2008) 80-81.
  - N. Cummings, EURO XXIII, One of the highlights at this year’s OR conference was a presentation and call for papers and attendees to EURO XXIII, by Gerhard Wilhelm-Weber, German Operational Research society, Inside O.R. (The OR Society of the United Kingdom), 15th October 2008.
  - G.-W. Weber, Workshop “Recent Developments in Applied Probability and Statistics” in Honour of Professor Jürgen Lehn, METU, Ankara, Turkey, April 23-24, 2009, OR-News 35 (March 2009) 65-66.
  - Z. Kalaylıoğlu and G.-W. Weber, Scientific Workshop and Seminar Series in Memory of Professor Jürgen Lehn, “Workshop on Recent Developments in Applied Probability and Statistics” , and the Pre-Workshop Seminar Series “Asset Liability Models for Life Insurances” (Ankara, Turkey, April 23-24 and April 22, 2009, respectively), OR-News (German OR Society) (May 2009) 80-82.
  - G.-W. Weber, EURO XXIII 2009 Conference “OR Creating Competitive Advantage” and “Der Kongress tanzt” — Report about 23rd European Conference on Operational Research, July 5-8, 2009, in Bonn, Germany, OR-News 37 (German OR Society) (November 2009) 27-32.
  - H. Smith, C.S. Pdamallu and G.-W. Weber, Report on “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, July 4, 2009, RheinAhr Campus, Remagen, Germany, OR-News 37 (German OR Society) (November 2009) 74-75.
  - D. DeTombe and G.-W. Weber, Report State of the Art Workshop Societal Complexity 2009, July 5, 2009, RheinAhr Campus, Remagen, Germany, OR-News 37 (German OR Society) (November 2009) 76-77.
  - Member in editorial board / collaborator of regular e-Newsletter of EUROPT (EURO Working Group on Continuous Optimization).
  - Editor of regular e-Newsletter of ORST (YAD; OR Society of Turkey) *On*

the “Life” in the German Operations Research Society GOR - a Partner of ORST.

- 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; and other reports for EUROPT, EURO Working Group on Continuous Optimization, and for EURO in 2002-2007.

### 3 Survey on Teaching Experience

#### 3.1 Own Responsible Courses<sup>4</sup>

<b>1989/90</b>	Substitution of lectures in <i>Analysis IV</i> (in Grundstudium <sup>5</sup> ) and in <i>Optimierung A</i> (Hauptstudium <sup>6</sup> ) at RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen)
<b>SS 1994</b>	<sup>7</sup> Substitution of lectures in <i>Analysis II</i> (Grundstudium) at TH Darmstadt (Darmstadt University of Technology)
<b>WS 1994/95</b>	<sup>8</sup> <b>Lecture</b> <i>Topologische Methoden in der Optimierung</i> at TH Darmstadt (Hauptstudium; L2)
<b>WS 1995/96</b>	<b>Lecture</b> <i>Topologische Methoden in der Optimierung</i> at TH Darmstadt (Hauptstudium; L2)
<b>SS 1996</b>	<i>Project-Proseminar II</i> at TH Darmstadt (e.g., mapping degree, elementary algebraic-topological investigations in optimization; Grundstudium, P2) with edition of a “readers” (report)
<b>WS 1996/97</b>	<b>Lecture</b> <i>Mathematik for Human- und Sozialwissenschaftler</i> at TH Darmstadt (Grundstudium; L2+E2)
<b>SS 1997</b>	<b>Seminar/lecture</b> <i>Werkstattgespräch Analysis</i> at TH Darmstadt (with advanced, but also with first years students and with guests; L2+S2) (workshop/colloquy, two meetings each week)

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

<sup>5</sup> first two years of study

<sup>6</sup> advanced study

<sup>7</sup> SS: summer semester

<sup>8</sup> WS: winter semester

- 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 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+1) (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 orga-

nizer; 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+1);

**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 Krezlioglu, 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. Azize 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. Ilk);  
**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+1) (with Prof. Dr. B. Karasözen),  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+1); 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. Azize 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 (Graduate 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, 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, 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+1),  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+1); 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. Azize Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. Özögür, Dr. Devin Sezer, Assist. Prof. Dr. Ö. Ugur and Cand. PhD. A. Sariaydin)

### 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 Modellierungsseminar* (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 postgraduat 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 postgraduat 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 postgraduat 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. Esma 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 (submitted and in present evaluation), 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.

At the moment, I supervise three **MSc.** student at IAM of METU: *BSc. Nuket Erbil* (parameter estimation in stochastic differential equations), *BSc. Gül Celik* (mathematics of generalized additive models) and *Ayşe Özmen* (robust conic quadratic optimization in regression). Furthermore, I am coadvisor of three *MSc.* student at IAM, METU: *MSc. Belgin Kayhan* (mathematics of generalized additive models), *Hatice Sakarya* (hybrid systems) and *Sedat Sarikaya* (heart research).

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*.

At *Institute of Applied Mathematics, METU*, I am supervisor of four **PhD** students, namely, *MSc. Süreyya Özögür-Akyüz* (in machine learning, infinite and semi-infinite optimization), *MSc. Basak Akteke-Öztürk* (data mining and nonsmooth optimization), *Miray Hanim Aslan* (energy and electricity markets) and of *MSc. Efsun Kürüm* (financial mathematics and statistics). Furthermore, I am coadvisor of two *PhD* students at *IAM*: *Erkan Kalayci* (financial mathematics in the energy sector), *Dilan Karatepe* (scientific computing in finance), and of *PhD* students of *METU*, outside of *IAM*: *Özlem Defterli* (from Department of Mathematics; dynamics of gene-environment networks) and *Gürkan Üstünkar* (from Informatics Institute; bioinformatics and machine learning) 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. K. Riedel*, *Dipl.-Math. M. Kurth* (now all Dr.). At *METU, Ankara*, and *Koc University, Istanbul*, I have belonged to many *MSc.* committees, and to the *PhD.* committees of *MSc. Sahar Qumsiyeh* from Department of Statistics of *METU* and of *MSc. Ö. Sinan Sarac* from Department of Computer Engineering of *METU* (now: Dr.). I am member of some other *PhD* juries, and I am external reviewer at *Nanyang University, Singapore* (in 2 *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 160 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 170 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) and Nanyang Technological University (Singapore), I served with many reports (opinions) in hiring committees, in processes of promotion and PhD processes. Furthermore, I am an external reviewer of Research Grants Council, Hong Kong, China.

### 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: [www.iam.metu.edu.tr/EUROPT/](http://www.iam.metu.edu.tr/EUROPT/), link: Scientific events, and, e.g., [www.iam.metu.edu.tr/research/groups/compbio/index.html](http://www.iam.metu.edu.tr/research/groups/compbio/index.html), link: Seminars).

### 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 *TÜBİTAK (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 of collaboration of IAM, METU, with *University of Zlin, Czech Republic* (Erasmus);
- Preparation of collaboration of IAM, METU, with *Institute of Mathematics and Informatics, Vilnius; and Lithuania* (Erasmus).
- Visit of some young Americans - Guidance and Presentation about METU and IAM given (2009).

## 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) (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 supporter);
- *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;
  - *BAP Project* Parameter Estimation for Actuarial Sciences and Financial Mathematics in Stochastic Differential Equations by Additive and Nonlinear Models and Continuous Optimization;
  - *BAP Project* Modern Mathematical Methods and Applications for Generalized Models in Statistics and Data Mining;
  - *DOSAP Project* Statistical Learning Methods in Financial Mathematics (with Assist. Prof. Dr. Pakize Taylan) (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.
  - Project with Fraunhofer Institut “Algorithms and Scientific Computing“, St. Augustin, Bonn, Germany, on Computational Biology (in preparation).

## 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<sup>d</sup> 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 (11<sup>th</sup> European Congress on Operational Research)”, Aachen, Germany, July 1991; helper at that conference.
- G.-W. Weber, On Structural Stability in Semi-Infinite Optimization, “3<sup>d</sup> 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, “24<sup>th</sup> Conference on Mathematical Programming, 9<sup>th</sup> 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, “7<sup>th</sup> French-German Conference on Optimization”, Dijon, France; June 1994.
  - G.-W. Weber, Nonlinear Control Theory: Structural Stability and its Characterization, “15<sup>th</sup> 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, “4<sup>th</sup> 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 “8<sup>th</sup> 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, “12<sup>th</sup> 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), “16<sup>th</sup> 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, “5<sup>th</sup> International Conference on Parametric Optimization and Related Topics”, Tokyo, Japan, October 1997.
- G.-W. Weber, On Stability Aspects in Nonlinear and in Discrete Optimization, “9<sup>th</sup> 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, “8<sup>th</sup> 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 “A<sup>3</sup>DiM<sup>3</sup>O 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, “2<sup>nd</sup> Workshop on Interior Point Methods IPM–2000”, in Budapest, Hungary, July 2000.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization, Symposium “EURO XVII (17<sup>th</sup> 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, “17<sup>th</sup> 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, “3<sup>rd</sup> 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), “20<sup>th</sup> 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, 12<sup>th</sup> 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, “4<sup>th</sup> IMACS Symposium on Mathematical Modelling”, Vienna, Austria, February 2003.
  - G.-W. Weber, 13<sup>th</sup> 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, July 4-5, 2003; Chairman of a session.
- G.-W. Weber, Modelling and Prediction of Gene-Patterns, EURO/INFORMS, Joint International Meeting, 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, 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 CO<sub>2</sub>-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 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 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, May 15-19, 2007; 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. Gülcin 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, Invited Lecture,

- Graduate Summer School on New Advances in Statistics, METU, August 11-24, 2007.
- 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, PCO2009, 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, 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. Ozdamar, 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. Koksals 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. Koksals 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.
  - G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, E. Kartal, E. Kürüm and A. Özmen, Regression Theory with Additive Models and CMARS, 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.
  - G.-W. Weber and B. Akteke-Öztürk, On Foundations of Continuous Optimization, 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, Nonsmooth Optimization, 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.
  - G.-W. Weber and B. Akteke-Öztürk, Elements of Semi-Infinite and Robust Optimization, 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, Quality Control and Improvement in Manufacturing, 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.
  - G.-W. Weber, V. Gafarova, N. Erbil, C.A. Gökçen and P. Taylan, Prediction of Financial Processes — Parameter Estimation in Stochastic Differential

- Equations by Continuous Optimization, 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.
- G.-W. Weber, E. Kürüm and K. Yildirak, Prediction of Credit Default by Continuous Optimization, 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.
  - G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, Ö. Ugur, H. Öktem, P. Taylan, E. Kropat and Ö. Defterli, Modelling, Dynamics and Development of Gene-Environment and Eco-Finance Networks, 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.
  - G.-W. Weber, 9 Years EUROPT — EURO Working Group on Continuous Optimization, presentation distributed at 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.
  - G.-W. Weber, K. Yildirak and E. Kürüm, A classification problem of credit risk rating investigated and solved by optimization of the ROC Curve, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.
  - G.-W. Weber, N. Erbil, C.E. Can, V. Gafarova, A. Kerimov and P. Taylan, Parameter estimation in stochastic differential equations by continuous optimization, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.
  - S. Özogur-Akyüz, G. Üstünkar, G.-W. Weber, Numerical optimization methods for infinite kernel learning, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.
  - F. Yerlikaya Özkurt, G.-W. Weber and A. Özmen, Robustification of CMARS, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.
  - G. Ustunkar, S. Özogur-Akyuz, U. Sezerman, G.-W. Weber and N. Baykal, Application of advanced machine learning methods For SNP discovery in complex disease association studies, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.
  - G.-W. Weber, E. Kropat and C.S. Pedamallu, Identification, optimization

and dynamics of regulatory networks under uncertainty, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 – October 2, 2009.

## 5.2 Seminars, Further Invitations

- G.-W. Weber, various seminars at Chair C of Mathematics, RWTH Aachen, Germany, 1988-1992.<sup>9</sup>
- 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.
- 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, Februar 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) introduc-

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<sup>9</sup> Examples:

- 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.

- tory 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 Mathematics 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, Kai-

erslautern, 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.
  - G.-W. Weber, Algorithmic Analysis of Gene Expression Data with Polyhedral Structures, visit of University of Ulm, Germany, February, 2003.
  - G.-W. Weber, G.-W. Weber, On the Topology of Generalized Semi-Infinite Optimization, General Seminar, Department of Mathematics, METU, April 24, 2003.
  - G.-W. Weber, On Projects in Scientific Computing at IAM, General Seminar, Institute of Applied Mathematics, METU, May 26, 2003.
  - G.-W. Weber, Some remarks about bioinformatics, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 10, 2003.
  - G.-W. Weber, An Algorithm to Analyze Stability of Gene-Expression Patterns, General Seminar, Institute of Applied Mathematics, METU, March 9, 2004.
  - G.-W. Weber, On Chips and Their Analysis, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, April 23, 2004.
  - G.-W. Weber, On Computational Biology and Medicine Studied in Our Research Group, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, June 4, 2004.
  - G.-W. Weber, On Modelling, Optimization and Prediction of Gene Patterns, Bilkent University, Seminar at Department of Industrial Engineering, October, 2004.
  - G.-W. Weber, On Modelling, Optimization and Prediction of Gene Patterns, visit of Koç University, College of Engineering and talk, October, 2004.
  - F.B. Yılmaz, H. Öktem and G.-W. Weber, Mathematical Modeling of Gene Expression Patterns and Gene Networks, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 22, 2004.

- G.-W. Weber, M.U. Akhmet, T. Ergenç, H. Öktem, B.Karasözen, S. Özöğür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde and R. Wünschiers, Modeling and Prediction of Gene Patterns, Seminar at GGIT (Department of Geographical-Geodaetical Information Technologies), METU, on Spatio-Temporal Data Mining, Ankara, November 21, 2005.
- G.-W. Weber, Anticipation and Optimization of Gene-Expression Patterns, Otto-von-Guericke-University Magdeburg, Faculty of Mathematics, Fakultätskolloquium, December 16, 2004.
- G.-W. Weber, Considerations and Reflections on Applied Mathematics, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, and General Seminar, Institute of Applied Mathematics, METU, December 28, 2004.
- G.-W. Weber, Considerations and Reflections on Applied Mathematics Shared and a Happy New Year!, General Seminar, Institute of Applied Mathematics, METU, December 28, 2004.
- G.-W. Weber, Modeling and Prediction of Gene Patterns, Joint Seminars, Department of Biological Sciences, METU, and IAM - Department of Biology, February 24, 2005.
- G.-W. Weber, S.W. Pickl, M.U. Akhmet, A. Gökmen, B. Karasözen and H. Körezlioğlu, Energy Management and Sustainable Development, Biyoenerji ve Sürdürülebilir Kalkınma, METU, Ankara, February 25, 2005.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Department of Industrial Engineering, METU, IE 590, Graduate Seminar, Ankara, March 25, 2005.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Informatics Institute, METU, Medical Informatics Seminar, Ankara, May 6, 2005.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Faculty of Arts & Sciences, Seminar at Department of Mathematics, Balıkesir University, July 30, 2005.
- G.-W. Weber and M. Taştan, Generalized Semi-Infinite Optimization and Anticipatory Systems, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, September 16, 2005.
- G.-W. Weber, Discrete Tomography: A Joint Contribution by Optimization Equivariance Analysis and Learning, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, September 30, 2005.
- G.-W. Weber, Discrete Tomography: A Joint Contribution by Optimization Equivariance Analysis and Learning, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics“, METU, October 7, 2005.
- G.-W. Weber, M.U. Akhmet, H. Öktem and S.W. Pickl, An Anticipatory

- Extension of Malthusian Model, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 14, 2005.
- G.-W. Weber, An Anticipatory Extension of Malthusian Model, General Seminar, Institute of Applied Mathematics, METU, October 18, 2005.
  - G.-W. Weber, Z. Alparslan, E. Gaygisiz, B. Karasözen, H. Körözlioğlu and S.W. Pickl, Some Remarks on Energy Management and Sustainable Development, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 21, 2005.
  - G.-W. Weber, T. Ergenç, B. Karasözen, H. Öktem, S. Özögür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde and R. Wünschiers, Modeling and Prediction of Gene Patterns, Joint GATA-METU Seminar in Bio-Medicine and -Technology Ankara, January 18, 2006.
  - G.-W. Weber, M.U. Ahkmet, T. Ergenç, B. Karasözen, H. Öktem, S. Özögür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde, R. Wünschiers, Modeling and Prediction of Gene Patterns, Bio-enformatik YUUP Biyotıp Toplantısı, Ankara, February 13, 2006.
  - G.-W. Weber, Discrete Tomography: A New Research Area in Modern OR, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, April 4, 2006.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Discrete Tomography: New Approaches and Results by Optimization Theory and Statistical Learning, Bilkent University, Seminar at Department of Industrial Engineering, April 7, 2006.
  - G.-W. Weber and S.Z. Alparslan, Some Remarks on Energy Management and Sustainable Development, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, May 12, 2006.
  - G.-W. Weber, B. Öztürk and B. Karasözen, Inverse Problems - with Special Emphasis on Discrete Tomography, Tübitak Data Mining Project at METU, June 16, 2006.
  - G.-W. Weber and Ö. Uğur, Gene-Environment Networks: Discrete-Continuous and Generalized Semi-Infinite Optimization Used for Modeling with Intervals, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, September 22, 2006.
  - P. Taylan and G.-W. Weber, New Approaches to Regression by Generalized Additive Models and Continuous Optimization for Modern Applications in Science, Finance and Technology, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 20, 2006.
  - S. Özögür, J. Shawe-Taylor, Z.B. Ögel, V. Atalay and G.-W. Weber, Biological Data Mining by Using SVM and Pattern Analysis - Prediction of Eukaryotic Pro-Peptide Cleavage Sites, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, November

- 10, 2006.
- G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür, P. Taylan and A. Tezel, A New Mathematical Approach: Dynamics and Prediction in Gene-Environmental Networks with the Help of Optimization Elements of Finance Included, General Seminar, Department of Mathematics, METU, March 1, 2007.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Inverse Problems - in the Sectors of Life Sciences, Technology, Economy and Society, Seminar on Computational Biology and Medicine IAM and YUUP Biyotip Group “Bioinformatics”, METU, March 23, 2007.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Inverse Problems - Illustrated by the Example of Discrete Tomography, General Seminar, Department of Mathematics, METU, May 17, 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, Seminar on Computational Biology and Medicine, IAM and YUUP Biyotip Group “Bioinformatics”, METU, May 11, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, A. Işcanoğlu, S. Özögür and P. Taylan, Various Topics of Applied Mathematics: Computational Statistics and Data Mining - the Examples of Clustering, Classification and Classification, Seminar on Applied Mathematics in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, September 28, 2007.
  - G.-W. Weber and P. Taylan, A New Approach in Financial Mathematics and Science: Approximation of Stochastic Differential Equations by Additive Models Using Splines and Conic Programming, General Seminar, Institute of Applied Mathematics, METU, October 9, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, P. Taylan, S. Özögür, S.Z. Alparslan-Gök, A. Tezel and Ö. Uğur, Optimization and Dynamics of Gene-Environment Networks Including Data Mining, Computational Statistics and Financial Mathematics, Seminar at Department of Statistics, METU, Ankara, October 18, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, S. Özögür, P. Taylan and G. Köksal, On Modern Data Mining - the Examples of Clustering and Classification, Seminar at Başkent University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, October 25, 2007.
  - S. Özögür Akyüz, G.-W. Weber, J. Shawe-Taylor and Z.B. Ögel, Learning Theory with Kernel Methods and Semi-Infinite Optimization, Vision and Pattern Analysis (VPA) Lab Meetings, Sabancı University, Istanbul, Ankara, November 20, 2007.
  - S. Özögür Akyüz, and G.-W. Weber, Learning with Infinitely Many Kernels via Semi-Infinite Programming, Vision and Pattern Analysis (VPA) Lab

Meetings, Sabancı University, Istanbul, Ankara, December 4, 2007.

- G.-W. Weber, B. Akteke-Öztürk, A. Işcanoğlu, S. Özögür Akyüz and P. Taylan, Computational Statistics and Data Mining - the Examples of Clustering, Classification and Regression Seminar at Faculty of Economics, Business and Law, University of Siegen, Germany, December 20-21, 2007.
- G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar at The William Davidson Faculty of Industrial Engineering and Management, Technion, Israel Institute of Technology, Haifa, Israel, January 20-25, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar at ORT Braude College, Karmiel, Israel, January 24, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, seminar presentation widely distributed at Technion, Israel Institute of Technology, Haifa, Israel, January 20-25, 2008.
- G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan, A. Tezel, E. Kropat and Z.-K. Görgülü, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, February 20, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, February 20, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, E. Kropat, Z.-K. Görgülü, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group "Bioinformatics", METU, February 22, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S.

- Özögür, J. Shawe-Taylor, E. Kropat, Z.-K. Görgülü, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar in Department of Computer Engineering, METU, February 27, 2008.
- S. Özögür and G.-W. Weber, Learning with Infinitely Many Kernels and Its Application of Optimization Theory, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 7, 2008.
  - G.-W. Weber, On Portfolio Optimization: Some Supplementary Documentations, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 14, 2008.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, March 26, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, N. Erbil, F. Özbudak and E. Akyıldız, E. Kropat and Z.-K. Görgülü, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, March 26, 2008.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar at Department of Biology, METU, Ankara, March 27, 2008.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür-Akyüz, Inverse Problems - Illustrated by Discrete Tomography - in Memoriam Professor Attila Kuba, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 4, 2008.
  - G.-W. Weber, D. Sezer, N. Erbil, E. Kropat and Z.-K. Görgülü, On Portfolio Optimization: Some Supplementary Documentations, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 18, 2008.
  - G.-W. Weber, Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Environmental and Life Sciences - Gene-Environment Networks, Seminar in

Optimization, Department of Mathematics, Darmstadt University of Technology, June 26, 2008.

- G.-W. Weber and P. Taylan, Organization in Finance Prepared by Stochastic Differential Equations with Additive and Nonlinear Models and Continuous Optimization, Faculty of Economics, Management and Law, University of Siegen, University of Siegen, Germany, July 4, 2008.
- G.-W. Weber and E. Kürüm, Gene-Environment Networks under Uncertainty – Finance, Wealth and Development Included, Department of Management, University of Bristol, UK, September 7, 2008.
- G.-W. Weber, S. Özögür-Akyüz and J. Shawe-Taylor, Machine Learning with Infinitely many Kernels - Infinite Programming and Semi-Infinite Programming Applied, Theoretical & Computational Optimization Group, School of Mathematics, The University of Birmingham, September 8, 2008.
- G.-W. Weber, and O. Özgür, Machine Learning with Infinitely Many Kernels - Infinite Programming and Semi-Infinite Programming Applied, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, September 26, 2008.
- G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ömür Ugur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat and T. Tchemisova, Some New Advances and Challenges in Modern Continuous Optimization with Semi-Infinite and Conic Quadratic Programming - Theory, Methods and Applications: Gene-Environment Networks under Uncertainty, October 10, 2008, University of Minho, Braga, Portugal.
- G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ömür Ugur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat and T. Tchemisova, Some New Advances and Challenges in Modern Continuous Optimization with Semi-Infinite and Conic Quadratic Programming - Theory, Methods and Applications: Computational Statistics and Financial Mathematics with Model-Based Learning by Optimization, October 10, 2009, University of Minho, Braga, Portugal.
- G.-W. Weber, D. Akume, P. Taylan, K. Yildirak, E. Kürüm, N. Erbil, Optimization and Algorithms of Parameter Estimation in Stochastic Differential Equations and Their Structural Frontiers, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 24, 2008.
- G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, E. Kalayci, M.H. Aslan, A.R.B. Ismaila and E. Kropat, Eco-Finance Networks under Uncertainty, Seminar on Financial Mathematics and Seminar on Applied Mathematics in

Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 31, 2008.

- G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, E. Kalayci, M.H. Aslan, A. Hayfavi, E. Güney and D. Akume, Mean Risk Optimization of Electricity Portfolios (based on the keynote speech of Prof. W. Römisch at the occasion of OR 2008 in Augsburg, Germany), Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, November 7, 2008.
- G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, E. Kartal, Ö. İlk, E. Kürüm and A. Özmen, MARS Revisited, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, November 14, 2008.
- G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, E. Kartal, Ö. İlk, E. Kürüm and A. Özmen, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology - MARS Revisited, presentation distributed at Faculty of Economics, Management and Law, University of Siegen, Germany, November 19, 2008.
- G.-W. Weber, A Small Excursion in Research on Business and Applied Mathematics: The Example of Data Mining in Quality Management and Finance, American University in Beirut, Suliman S. Olayan School of Business, Beirut, Lebanon, December 10, 2008.
- G.-W. Weber, I. Batmaz (speaker), G. Köksal, P. Taylan and F. Yerlikaya, Performance Evaluation of C-MARS: a Novel Approach to Nonparametric Regression, General Seminar, Institute of Applied Mathematics, December 16, 2008.
- G.-W. Weber, A Small Excursion in Research on Business and Applied Mathematics: The Example of Data Mining in Quality Management and Finance, General Seminar, Department of Mathematics, Atılım University, Ankara, Turkey, December 17, 2008 (coauthors: B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ö. Ugur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat, T. Tchemisova).
- S. Özögür-Akyuz, G.-W. Weber and J. Shawe-Taylor, A Mathematical Contribution of Statistical Learning and Continuous Optimization Using Infinite and Semi-Infinite Programming, to Computational Statistics, Seminar at Sabanci University, Faculty of Engineering and Natural Sciences, December 25, 2008.
- G.-W. Weber, Middle East Technical University, presentation at the occasion of visit of American guests at IAM and METU, Ankara, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences

and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, January 2, 2009.

- G.-W. Weber, On Portfolio Optimization: Some Supplementary Documentations, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 6, 2009.
- G.-W. Weber, On Challenges and Opportunities of Continuous Optimization Theory and Applications in Networks of Learning and Research Collaboration, seminar at Graduate School of Information Technology and Mathematical Sciences (ITMS), University of Ballarat, Australia, March 16-17, 2009.
- G.-W. Weber, Discrete Tomography I, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 10, 2009.
- G.-W. Weber, P. Taylan, K. Yildirak, E. Kürüm, S.Z. Alparslan-Gök, V. Jafarova and N. Erbil, Some New Contributions of Continuous Optimization Theory in the Financial Sector and Related Areas, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, May 19, 2009.
- G.-W. Weber, P. Taylan, K. Yildirak and E. Kürüm, Some New Contributions of Continuous Optimization Theory in the Financial Sector and Related Areas, Seminar of Department of Mathematics of Cankaya University, Ankara, May 22, 2009.
- G.-W. Weber, Z. Volkovich, Z. Barzily and D. Toledano-Kitai, Cluster Stability Estimation Based on a Minimal Spanning Trees Approach (An Advance in Mathematical Statistics and Its Applications), Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, May 29, 2009.
- G.-W. Weber, On Robust Portfolio Optimization (in the tradition of the Markovitz model), Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 23, 2009.
- G.-W. Weber, F. Yelikaya-Özkurt, A. Özmen and I. Batmaz, Robustification of Newly Developed CMARS Method — The New Robust CMARS (RCMARS) Method, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 23, 2009.

### 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, B., 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.
- G.-W. Weber, various Posters prepared for announcing scientific events 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, Kazakhtan, 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 CASYS07, 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 CASYS07, 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.

## **6.2 Future Events (in Preparation)**

- 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 Optimization 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 Program Committee of the 15th IFIP WG 8.3 International Conference on Decision Support Systems (DSS 2010), Lisbon, Portugal, 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 International Program 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 Conference on Optimization: Techniques and Applications (ICOTA 8), Shanghai, China, December 10-13, 2010.
- Member in Scientific Programme Committee of IFORS 2011, Melbourne, Australia, July 10-15, 2011.
- Further Invitations to CAS-MPG Partner Institute on Computational Biology, Shanghai, China, to Fudan University, Shanghai (China), University of Braunschweig, Munich University of Technology and Universität der Bundeswehr, München, University of Amsterdam (The Netherlands), Karl-Franzens University, Graz, and University of Vienna (Austria), LITA - University Paul Verlaine-Metz (France), University of 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 and University of Birmingham (United Kingdom), University of Ballarat (Australia), Technion, Haifa (Israel), ORT Braude College, Karmiel (Israel), Universidad de las Americas, UDLA, Puebla (Mexico), Memorial University, New Foundland, and McMaster University, Hamilton (Canada).

Gerhard-Wilhelm Weber,

Ankara, November 18, 2009