



EUROPT

Newsletter 7 of EUROPT

The Continuous Optimization Working Group of EURO

<http://www.iam.metu.edu.tr/EUROPT/>

August 2007

EUROPT - The Continuous Optimization Working Group of EURO

Words from the Chair

Dear Members of EUROPT, dear Friends,

The conference season has been quite successful so far, in Prague, Puerto Rico and at other places all over the world and, actually, it still goes on. About our Joint EUROPT-OMS Conference in Prague, which was very well attended, you find closer information in the report at

<http://www.iam.metu.edu.tr/EUROPT/Joint%20EUROPT-OMS%20Conference%20short.pdf>. EURO XXII 2007 in Prague, where we from EUROPT were so engaged, became the greatest EURO conference ever. A cordial welcome to all new members who joined us during the last weeks!

For the future events we will do our best to relate scientific excellence and quantitative growth with continued and intensified efforts in hospitality and “social fantasy”, to let every participant become pleased and satisfied as much and well as possible.

I'd also like to mention the 2nd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (<http://summerschool.ssa.org.ua/>). There are more events forthcoming, including OR conferences of national OR Societies, etc.

In the next year of 2008 we are celebrating our EURO Mini Conference in Neringa, Lithuania (<http://www.mii.lt/europt-2008/>); then, in 2009, there will be EURO XXIII 2009 in Bonn, Germany. If you are interested in serving as a *Stream or Session Organizer* at any of these events, please send an e-mail with your consideration and data to gweber@metu.edu.tr! This e-Newsletter will inform about further events which we support; closer and further information will be given later on.

There has been a great loss a few weeks ago. One of our dear friends and a teacher and mentor of many ones of us: **Prof. Dr. Hayri Körezlioğlu** (Institute of Applied Mathematics, METU)! passed away after some months of disease. He became 77 years old. Hayri Bey can truly be called the father of financial mathematics in Turkey. He was an excellent scientist, gave guidance to many young people, and served EUROPT as an active member. Please visit <http://150.146.2.4/amamef/>. The special issue of the journal Optimization, “Continuous Optimization in Financial Mathematics”, is in preparation to his honour also. Our thoughts and feelings are with his dear widow Mrs. *Jale Körezlioğlu* who is a member of EUROPT, too, and with his children. Thank you very much, dear Hayri Bey! In 2008, there will be a workshop prepared in memorian of Prof. Dr. Hayri Körezlioğlu..

Let me now wish to us a lot of pleasure when reading this 7th Newsletter! Thanks to our friend and newsletter editor Prof. Miettinen, dear Kaisa, for all her care and tasteful efforts.

With best wishes, Your sincerely,
Gerhard-Wilhelm Weber, Chair of EUROPT

Discount for Members of EUROPT

I am pleased to inform you that Taylor & Francis, the publisher of the journal **Optimization Methods & Software** (OMS) <http://www.informaworld.com/OMS> offers a discounted individual electronic subscription to OMS for individual members of some societies, including IFORS, EURO and EUROPT.

The announcement will appear soon on the web: <http://www.tandf.co.uk/journals/offer/goms-so.asp>

With best regards,

Oleg Burdakov, Editor-in-Chief of OMS

EURO Management Science Strategic Innovation Prize (MSSIP 2009)

Call for proposal of area of application

The European Association of Operational Research Societies (EURO) is offering an award to foster specific areas of application of Operational Research in management. The prize is intended to award outstanding contributions in theory or in practice of a given area. This area is announced several years in advance to encourage innovative researchers and possibly entire research groups to focus their work on a domain of particular strategic interest.

The award, sponsored by SAP AG, Walldorf, Germany, will be called Management Science Strategic Innovation Prize (MSSIP) and is endowed with an amount of 12.000 EUR.

Proposal of area of application

The proposal of area of application should take into account the points here under:

- Name of area, description of area, emphasizing its strategic significance
- Already existing related research
- People already working in the suggested area
- Possible chair person of the jury

Please send your proposal of area of application to: President@euro-online.org and to Office@euro-online.org

Comments:

- The area should be comparatively broad and of strategic importance. It should usually not be a traditional area of Operations Research but a field to which OR could contribute to a major advancement. The area description and the possible OR contribution should be sufficiently specific. It should have the format, e.g., of a call for papers for a special workshop, or a focused issue of a journal.
- The literature survey should particularly indicate how OR could contribute to an advancement of the area. Hence non-OR literature might be mentioned as well.
- Not only people, but also workshops and other initiatives (possibly non-OR related) should be mentioned as well. It is not necessary (and even not desired) that all these people have an OR background.
- The suggested chairperson should be an OR scientist.

Deadline for Papers presented at Joint EUROPT-OMS Meeting 2007
2nd Conference on Optimization Methods & Software
and 6th EUROPT Workshop on Advances in Continuous Optimization
July 4-7, 2007, in Prague, Czech Republic

Conference Publications

Papers presented at the conference will be considered for peer-reviewed publication in a special issue of the journal [Optimization Methods and Software](#). The deadline for submission is **September 30, 2007**. The papers should be submitted to any of the two Guest-Editors:

- Regina Burachik: Regina.Burachik@unisa.edu.au
- Michal Kocvara: kocvara@maths.bham.ac.uk

The paper length should not exceed 25 journal pages. Instructions for Authors and style files are available on the [OMS' web page](#).

International conference
**EURO Mini Conference "Continuous Optimization and
Knowledge-Based Technologies", EurOPT-2008**
May 20-23, 2008, Neringa, LITHUANIA, <http://www.mii.lt/europt-2008>

If you are interested in serving as an *invited Stream (or Session) Organizer*, please contact sakal@ktl.mii.lt, terlaky@mcmaster.ca, gweber@metu.edu.tr.

In the name of the organizers of EURO MC 2008, I cordially invite you to continue this common way that we began in these years, and hope to see you in a good and healthy condition at the scenic Baltic Sea!

With best wishes, warm regards, Gerhard-Wilhelm Weber

EngOpt 2008
International Conference on Engineering Optimization
Rio de Janeiro, Brazil, June 1-5, 2008, <http://www.engopt.org>

ABSTRACTS SUBMISSION IS NOW OPEN!

A forum for Engineers, Mathematicians and Computer Scientists to share research and innovations, promoting interdisciplinary activities in all fields of Engineering Optimization.

Engopt 2008 is organized by: Federal University of Rio de Janeiro and co-sponsored by: ABCM - Brazilian Society of Mechanical Sciences and Engineering EUROPT - EURO Working Group on Continuous Optimization ISSMO - International Society for Structural and Multidisciplinary Optimization MathProg - Mathematical Programming Society

Contacts: Prof. Jose Herskovits, COPPE/Mechanical Engineering Program, Federal University of Rio de Janeiro, engopt@optimize.ufrj.br

IFIP TC8/WG8.3 Working Conference
International Conference on Collaborative Decision Making (CDM '08)
Manufacture des Tabacs, Toulouse, France, July 1- 4, 2008
<http://www.irit.fr/CDM08/>

Conference chair: P. Zaraté, IRIT-INPT-ENSIACET, Toulouse, France

Paper submission due: **November 16th 2007**

The IFIP TC8/WG8.3 conferences present the latest innovations and achievements of academic communities on Decision Support Systems (DSS). These advances include theory, systems, computer aided methods, algorithms, techniques, and applications related to supporting decision making.

This conference is supported by the Euro Working Group on DSS (see <http://www.euro-online.org/>).

The main theme for the 2008 edition of the conference is Collaborative Decision Making and in particular, addressing the question of how to support Collaboration in Decision Making? Welcome answers will incorporate key elements to deal with the complexity of supporting collaborative decision making. Expected contributions will try to answer to some of the following questions: Where does the data for collaborative decision making come from and how is it assembled? Who is, or should be, involved in making the decision? How do teams collaborate to build up common understanding? How to Tackle Complexity in decision making and decision support? A special focus on Data, Models and Actors will be taken into account.

Topics: The topics of interest for the conference include, but are not limited to:

- Facilitation of team coordination and data collection and exchange
- Logistics knowledge collaboration model
- Impact of introducing new technology on collaboration
- Spontaneous collaborations
- Evaluation of the most appropriate collaboration level
- Coordination of distributed supply chain partnerships
- Machine intelligence coupled with human intelligence
- Collaboration across supply networks using intelligent agents
- Knowledge-intensive collaborative design
- On-demand business process-based collaboration
- Utilizing context in knowledge management and collaborative systems
- Collaboration among entities in a network such as schedulers
- Social collaboration systems
- Intellectual capital as a resource network for collaborative decision making.

Papers focused on other areas linked to DSS area are also welcome, for example:

- Data-driven DSS (including data mining types of problems)
- Model-driven DSS
- Intelligent DSS
- Real-time DSS

A Doctoral Colloquium will be held as part of the conference July 1st 2008 is organised by G. Philips-Wren and D. Paradise.

Submissions

Authors are requested to submit original, complete papers to the following email http://webmail.metu.edu.tr/0_top?actioncompose=1&to=cdm08@irit.fr. Each paper will be reviewed by at least two referees. Accepted papers will be published only if at least one of the authors is registered to attend the conference in due time. Accepted papers with at least one registered author will appear in the Proceedings of the Conference published as a book. Formatting Instructions for submissions will be delivered in the second Call for Papers. Best papers will be forwarded for submission to several special issues for high level journals in the DSS area like Journal of Decision Systems, Intelligent Decision technologies, European Journal of Operational Research (EJOR).

Paper submission due November 16th 2007
Notification to authors January 18th 2008
Final Version of accepted papers February 15th 2008

The official **language** of the conference is English.

Conference location

Toulouse is a large city in the south west of France in the Midi Pyrénées country. For more information about Toulouse and its country please visit: <http://www.cict.fr/toulouse/EBienvenue.html> .

Steering Committee

Adam Frédéric, University College Cork, Ireland, Burstein Frada, Monash University, Australia, Humphreys Patrick, London School of Economics, UK, Philips - Wren Gloria, Loyola Maryland University, USA, Pino José Alberto, University of Chile, Chile, Respicio Ana, Lisbon University, Portugal, Zaraté Pascale, IRIT-ENSIACET-INPT, Toulouse, France

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Ravat Franck, IRIT-UT1, Toulouse, France, Zaraté Pascale, IRIT-ENSIACET-INPT, Toulouse, France

Conference secretary

Debats Véronique, IRIT, Toulouse, France, Foucaud Florence, INPT-SAIC, Toulouse, France

NONCONVEX PROGRAMMING: LOCAL & GLOBAL APPROACHES Theory, Algorithms and Applications (NCP07)

17-21 December 2007, National Institute for Applied Sciences, Rouen, France

<http://ncp07.insa-rouen.fr/>

The International Conference marks the good period of 25 years of extensive and successful developments in these fields, and, at the same time, pays a tribute to Prof. Hoang Tuy on the occasion of his 80th birthday, in recognition of his pioneering achievements which considerably affected the field of Global Optimization.

The International Scientific Committee of NCP07 will consist of more than 100 members of about 30 countries all the world over. The Conference NCP07 will bring together most leading specialists in both theoretical and computational aspects of local and global approaches to nonconvex programming to highlight recent advances, foster interactions and collaborations, and to discuss how to expand the role of these fields in a lot of potential high-impact application areas, such as (but not limited to): see the menu item Announcement (which contains also the list of topics) in its website.

Contributions to the mathematical modelling and the solution of real-life problems are particularly appreciated. The Conference will be composed of featured symposia, plenary lectures, invited sessions, and contributed sessions. It aims to address to a large audience that includes both researchers from academia and practitioners from industry.

List of Plenary speakers includes:

Hans Georg Bock (Uni. Heidelberg, Germany), Jonathan M. Borwein (Uni. Dalhousie, Canada), Vladimir Demyanov (Uni. Saint Petersburg, Russia), Christodoulos A. Floudas (Uni. Princeton, USA), Masao Fukushima (Uni. Kyoto, Japan), J-B. Hiriart Urruty (Uni. Paul Sabatier-Toulouse 3, France), Hoang Tuy (Institute of Mathematics, Hanoi, Vietnam), Masakazu Kojima (Tokyo Institute of Technology, Japan), Hiroshi Konno (Uni. Chuo, Japan), J-B. Lasserre (LAAS, CNRS, Toulouse),

France), Jong-Shi Pang (Rensselaer Polytechnic Institute, USA), Panos Pardalos (Uni. Florida, USA), C. Schnoerr (Uni. Mannheim, Germany).

We are pleased to invite you to submit extended abstracts and proposals of special sessions. Selected papers presented at NCP07 will be published in Special Issues of the Journals dedicated to NCP07, including:

- Journal of Global Optimization
- Springer Book Series on *Nonconvex Optimization and Its Applications*
- Optimization and Engineering
- Optimization
- Advances in Data Analysis and Classification
- Vietnam Journal of Mathematics
- Acta Mathematica Vietnamica
- Others

The normal time for submission of extended abstracts is August 15, 2007.

However it may be possible to include a number of late submissions in the programme until September 15, 2007. Early submissions are encouraged.

Paper submission deadline: January 31, 2008

The International Scientific Committee and Organizing Committee:

- Prof. Pham Dinh Tao (National Institute for Applied Sciences, Rouen, France) : Chair,
- Prof. Le Thi Hoai An (University Paul Verlaine -Metz, France): Co-Chair.
- Prof. Panos Pardalos (University of Florida, USA): Co-Chair.

Robust Multiobjective Design Optimization with Simulation

3-4 December 2007, Fraunhofer-Chalmers Research Centre for Industrial Mathematics (FCC), Gothenburg, Sweden,

<http://www.chalmers.se/math/EN/research/gmmc/research-programme8144/optimisation-modelling/robust-multiobjective>

The subject of this workshop is robust optimal design where simulation is an important part of the design evaluation, and where there may be more than one objective function. The workshop aims to gather people from different fields, primarily from the Nordic countries, within academia and industry to discuss the state-of-the-art and future challenges in solving these problems. We hope that stimulating discussions across subject boundaries will enrich us all.

The talks will be given in English. The workshop is organized and partly sponsored by GMMC (Gothenburg Mathematical Modelling Centre) which is a #research centre placed at the Department of Mathematical Sciences (Chalmers and Goteborg University) and FCC; it is a strategic research centre funded by the Swedish Foundation for Strategic Research (SSF).

Plenary speakers and their topics

- Prof. John Bandler, McMaster University, Toronto, Canada: "Why engineering design through space mapping works: An engineer's interpretation"
- Prof. Bo Bergman, Chalmers University of Technology, Gothenburg, Sweden: "On the relationships between a continuous improvement perspective and an optimisation perspective"

- Dr. Olof Dahlberg, CD-adapco, Seattle, WA, USA: "Organizational and technical challenges to cut costs and time in the development process through design and robustness optimization with simulations".
- Prof. Anders Klarbring, Linköping University, Linköping, Sweden: "Topology optimization in flow problems"
- PD Dr. habil Karl-Heinz Kuefer, ITWM, Kaiserslautern, Germany: "Interactive decision support for industrial processes"
- Dr. Per Weinerfelt, SAAB, Linköping, Sweden: "Optimization using PDE and Adjoint Technique Applied to Industrial problems"

Plenary talks are scheduled to 45 minutes each, including Q&A. We invite all other participants to present regular talks of 30 minutes, including Q&A. To apply, please send an abstract of maximum 150 words to the e-mail address opt.info@fcc.chalmers.se at the latest on **14 September**. Participants who are selected to give contributed talks will be offered a 20% reduction in the registration fee.

Registration and important dates: Registration is made by sending an e-mail to opt.info@fcc.chalmers.se including name, company/university, department, billing and electronic addresses, "workshop 2007", and any dietary requests regarding the workshop dinner.

Title and abstract (maximum 150 words) of proposed talks should also be sent to opt.info@fcc.chalmers.se

5 October is registration deadline for all participants. After this date, the cost of registration increases by 50 %.

Workshop fee

Invited speakers: free

Regular speakers: 2000 SEK (before 5 October); 3000 SEK (after 5 October)

Participants: 2500 SEK (before 5 October); 3750 SEK (after 5 October)

Students: 1000 SEK (before 5 October); 1500 SEK (after 5 October)

Following the Workshop a special issue of the Springer journal Optimization and Engineering will be edited and published, with tentative publication date December 2008.

Photos of INFORMS International, Puerto Rico '07

See pictures taken at the conference by Harlan Crowder: <http://www.harlanpics.com/public/puertorico07/>

Report: HIBIT'07

International Symposium on Health Informatics and Bioinformatics (HIBIT'07) was held in Belek, Antalya, Turkey in April 30 - May 2, 2007. It was the second HIBIT conference organized by Informatics Institute, Middle East Technical University (METU), Turkey. The aim of **HIBIT'07** was to bring together academicians from medical, biological, and IT fields with industry and government for creating synergy and supporting interdisciplinary research and development in the region on the subject.

HIBIT'07 was officially opened by the conference chair Prof. Dr. Neşe Yalabık, Department of Computer Engineering, METU and the conference covered the broad range of topics in the field of bioinformatics and health informatics, like data mining, medical imaging, protein interactions, structural bioinformatics etc.

Keynote speakers were **Prof. Anna Tramontano**, Department of Biochemical Sciences, University of Rome, Italy; **Prof. Peter Szolovits**, Harvard/MIT Division of Health Sciences and Technology, USA; **Thomas Beale**, Ocean Informatics, Australia.

The conference was sponsored by IEEE Turkey Section, Turkish Medical Informatics Association, TUBITAK, Tepe Technology Inc., Çözüm Bilgisayar A.Ş., Birim Bilgi Teknolojileri A.Ş., MNG Bilgisayar A.Ş. HIBIT'07 proceedings can be downloaded from <http://hibit.ii.metu.edu.tr/07/docs/HIBIT07.zip>

Alper Soyler, Middle East Technical University

Call for Abstracts: WCCM VIII – ECCOMAS 2008

Venice, Italy, June 30 to July 4, 2008, <http://www.iacm-eccomascongress2008.org/frontal/>

Dear Colleague,

we are pleased to inform you that, with the help of many colleagues throughout the world, the organization of the Minisymposia for the joint VIII World Conference on Computational Mechanics (WCCM VIII) and V European Congress on Computational Methods in Applied Science and Engineering (ECCOMAS V), to be held in Venice from June 30 to July 4 2008, is now complete. You are invited to visit the Conference website at <http://www.iacm-eccomascongress2008.org/frontal/> for updated information about the Conference organization and the list of accepted Minisymposia.

You are kindly invited to submit a two page abstract for presentation at the joint WCCM VIII-ECCOMAS V. The deadline for abstract submission is **December 15th, 2007**. The template for abstract preparation and detailed instructions can be found at <http://www.iacm-eccomascongress2008.org/frontal/Submision.asp>.

All abstracts must be submitted through the Conference website, following the instructions available there. Abstracts will be reviewed by the Minisymposia Organizers and by the Organizing Committee. Acceptance of abstracts will be notified by January 31st, 2008.

Please do not hesitate to contact the Congress Secretariat at "IACM-ECCOMAS08" <iacm@cimne.upc.edu> for any questions Concerning submission and review of abstracts.

Important Dates

December 15th, 2007: Deadline for presenting a one page abstract

January 31st, 2008: Acceptance of the contributions and instructions for writing the final one page abstract

February 28th, 2008: Deadline for submitting the final abstract and early payment

We thank you in advance for your interest and cooperation towards the success of the next IACM / ECCOMAS Congress.

Best regards, Bernhard Schrefler, Umberto Perego
Co-chairmen of the IACM / ECCOMAS Congress 2008

Professor in Optimization

At TU Delft a vacancy exists for a Full Professor in Optimisation.

The deadline for application is **October 1, 2007**. For more information, see www.vacanciesindelft.nl

Some words from the Newsletter Editor

Dear reader,

Many thanks to those who have sent me material for this newsletter, in particular Gerhard-Wilhelm Weber. Material for the next newsletter is always most welcome. Please, send me email with 'EUROPT Newsletter' as the subject!

For further optimization-related information, you may visit <http://optnet.itwm.fhg.de/opt-net/>, the Opt-Net electronic forum for the optimization community organized by [SIGOPT](#) under the auspices of the Deutsche Mathematiker Vereinigung ([DMV](#)). Let me remind you that I have collected links related to conferences in operations research and optimization at <http://www.mit.jyu.fi/miettine/lista.html#Conferences>.

Remember that EUROPT welcomes new members. Becoming a member is easy: fill the form at http://anadolu.lib.metu.edu.tr/EUROPT/h_newuser.php (note that EUROPT has no membership fees!).

I wish all of you a very fruitful autumn – let us keep in touch!

With best wishes, Kaisa Miettinen ([miettine at hse.fi](mailto:miettine@hse.fi))

EUROPT NEWSLETTER

Editor-in-Chief: Kaisa Miettinen

Co-workers: Gerhard-Wilhelm Weber and Basak Akteke Ozturk