



EURO mini -Conference
on Optimization in the Natural Sciences
Aveiro, 5th-9th February 2014

Sponsors:



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First Call for Abstracts
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Dear Colleagues,

the organizers of the EURO mini-conference on Optimization in the Natural Sciences (EURO mini 2014) have a pleasure to invite you to take part in this conference to be held in Aveiro, Portugal on 5-9 February, 2014, <http://minieuro2014.web.ua.pt/>.

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Aims and Scope
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The conference aims at discussing the latest research in optimization and its applications to the Natural Sciences. The main objective of the meeting is to encourage the exchange of knowledge and recent achievements, and to establish collaborations among researchers and practitioners working in the areas of Computer Science / Optimization / Statistics, and Physics / Chemistry / Biology / Medical Sciences.

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Topics

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- Analysis of microarray data or next generation sequencing
- Applications of modeling and optimization in physics, biology, chemistry, and medicine
- Billiard theory and applications
- Biomedical engineering
- Design optimization
- Data visualization for optimal decisions
- Image processing
- Infinite and semi-infinite optimization with applications
- Inverse problems
- Linear and nonlinear optimization and applications
- Multi-criteria optimization with applications
- Multi-scale optimization with applications
- Optimal control applied to biological models
- Optimal mass transfer
- Optimization in bioinformatics and computational biology
- Shape optimization
- Solution of optimization problems using statistical methods
- Statistics in high-dimensional data
- Statistical methods and visualization
- Statistical and probabilistic modeling
- Wave scattering

Abstracts must be written in English and contain no more than 600 characters (no formulas or mathematical notations are allowed). Each attendee is allowed to present ONE paper at the conference. To submit an abstract, use the abstract submission system of EURO-Online that soon will be available on the conference website (<http://minieuro2014.web.ua.pt/>).

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Organizing Committee

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- Tatiana Tchemisova (co-chair)
- Alexander Plakhov (co-chair)
- Adelaide Freitas (co-chair)
- António Pereira
- Isabel Brás
- João Pedro Cruz

- Jorge Sá Esteves
- Paula Carvalho
- Paula Rama
- Pedro Macedo
- Ricardo Pereira
- Vera Afreixo

Secretariat: Neusa Lagarto, neusa@ua.pt.

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- Tatiana Tchemisova (University of Aveiro, Portugal)
- Vera Rostschina (University of Ballarat, Australia)
- Vladimir Bushenkov (University of Evora, Portugal)

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Organizing institutions
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- EURO - The Association of European Operational Research Societies,
<http://www.euro-online.org>
- EUROPT - EURO Working Group on Continuous Optimization,
<http://europt.iam.metu.edu.tr/>
- CIDMA - Center for Research & Development in Mathematics and Applications,
<http://cidma.mat.ua.pt/ma/home.php>
- Department of Mathematics, University of Aveiro,
<http://www.ua.pt/dmat/>

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Confirmed Invited Speakers
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- Giuseppe Buttazzo, Dipartimento di Matematica, Università di Pisa, Italy,
<http://www.dm.unipi.it/pages/buttazzo/>
- Sergey Tabachnikov, Pennsylvania State University, Department of Mathematics, USA,
<http://www.math.psu.edu/tabachni/>
- Leonid Bunimovich, Georgia Institute of Technology, Atlanta, USA,
<http://people.math.gatech.edu/~bunimovh/>
- Michael Greenacre, Department of Economics and Business, University Pompeu Fabra, Barcelona, Spain,
<http://www.barcelonagse.eu/faculty.php?id=118>
- Gueorgui Smirnov, University of Minho, Portugal,
<http://intranet.uminho.pt/4881.page>
- Aleksander Dudin, Belarusian State University, Belarus,
<http://www.apa.bsu.by/>

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Important dates
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- Deadline for abstract submission: 1/11/2013
- Notification of acceptance: 15/11/2013
- Deadline for registration fee payment for inclusion in the abstract book:
15/01/2014

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Registration fee
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- Regular early (up to 1/12/2013): 285 euros
- Regular late (up to 15/01/2014): 360 euros
- Student early (up to 1/12/2013): 150 euros
- Student late (up to 15/01/2014): 200 euros
- Accompanying person: 50 euros

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Special Issue
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Papers presented at EURO mini 2014 can be submitted for peer-reviewed publication in a special issue of Optimization, <http://www.tandfonline.com/loi/gopt20>.

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Contacts
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For all questions please contact: DMAT-miniEURO2014@ua.pt.

Please visit our website <http://minieuro2014.web.ua.pt/> for more information.