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CONFERENCE ORGANIZERS

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Mohamed Nadif, LITA - IUT Metz University
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Pham Dinh Tao, LMI - INSA, Rouen
Eric San Juan, LITA - IUT Metz University



PAPER SUBMISSION

Submitted manuscripts should use plain A4 Latex article style, corresponding roughly to 8 pages, 10pt, 1 column, with 1 inch margins, and should be in PDF or PS format. Submissions should be sent to :
lethi@sciences.univ-metz.fr

PUBLICATIONS

The refereed Proceedings of MCO'04 under an ISBN reference will include all papers accepted for the conference. Authors of accepted papers are invited to submit a longer version of their work to be published in Special Issues of International Journals including:

- **Special Issue of European Journal of Operational Research** : "Operations Research Methods for IT - Based Management"

- Double Special Issue of **Journal of Global Optimization** : "Modelling, Computation and Optimization in Systems Engineering"

Editors :

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VENUE

The Conference will be hosted by the University of Metz, Campus "Ile du Saulcy". Metz, located in the North East of France, about 330 kms away from the capital Paris and two and a half hours by train, is a city open to urban ecology, to its heritage with architectural surroundings of the finest quality, to its economic environment, to New Information and Communication Technologies and to a dynamic cultural life.

CONTACT

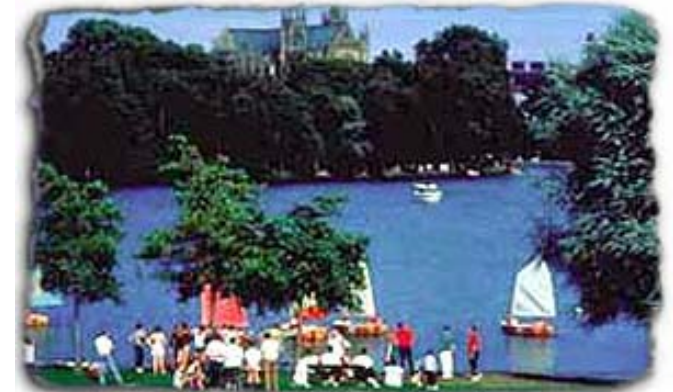
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MCO 2004

**Modelling, Computation
and Optimization
in Information Systems
and Management Sciences
(MCO 2004)**

July 1-3, 2004, Metz, France
www.lita.univ-metz.fr/~mco04



INVITED SPEAKERS

Hans-Hermann Bock, RWTH Aachen, Germany
Ali Mohammad-Djafari, CNRS-Supelec, France
Radu Horaud, INRIA Rhône-Alpes, France
Patrice Marcotte, University of Montreal, Canada
Panos Pardalos, University of Florida, USA
Jean Loup Risler, CNRS-University of Evry, France
Berç Rustem, Imperial College, London, UK
Hoang Tuy, Hanoi Institute of Mathematics, Vietnam
Yinyu Ye, Stanford University, USA
Henry Wolkowicz, University of Waterloo, Canada

PRESENTATION

The yearly International Conferences on Computer Sciences at Metz (MCU'98, JIM99 - JIM03) attracted over the last years substantial attention among computer scientists, mathematicians, and users in techniques for NP - Completeness, Parallelism, (see TCS 231-2 special issue), Graph Algorithms (see DAM 131-1), Humain Computer Interaction and Knowledge Discovery (forthcoming special issues of DAM and Soft Computing).

This fifth international conference will cover several fields of Management Sciences and Information Systems : Computer Sciences, Information Technology, Mathematical Programming, Optimization & Operations Research and related areas. It should allow researchers and practitioners to discuss recent developments in models and solutions methods for decision making in Engineering and Information Systems. Contributions to the solution of real-life problems are particularly appreciated.



CALL FOR PAPERS

Papers may fit in one of the following main topic areas, and that in unlisted but related sub-topics are also welcome:

Area 1: Optimization and Decision Making

- Recent developments from different

Optimization fields: Nonconvex Programming, Global Optimization, D.C. (Difference of Convex functions) Programming, Semidefinite Programming, Semi-infinite Programming, Multicriteria Optimization, Network Optimization, Graph Algorithms, Mixed Integer Programming, Large-scale Nonlinear Programming, Complementarity and Variational Inequality Problems, Mathematical Programs with Equilibrium Constraints, Optimal Control, Mechanical and Structural Optimization, Shape Optimization, Inverse and Ill-posed Problems, Stochastic Optimization, Robust Optimization, Logic Constraints Programming, Constraint Satisfaction, Heuristic and/or Meta-Heuristic Methods, ...

- Optimization Software

- Novel opportunities of Optimization for

Industry and Finance: Models and Optimization Techniques for various applications such as Telecommunications, Supply Chain Management, Auto Manufacturing, Aerospace Engineering, Air Traffic Management, Genomics, Biomedical Engineering, Computational Biology, Financial Optimization, Mechanical and Structural Engineering

- New developments in Classical Optimization Problems (Assignment, Knapsack, Network Design & Graph, Location, Partitioning, Routing & Scheduling)

- Operations Management: Management - Logistics, Project Management, Production Planning and Scheduling, Location and Layout, Routing and Distribution, Resource Allocation, Flexible Manufacturing, Supply Chain Management, Conducts of Complex Industrial Systems, Simulation in Engineering



Academic

Area 2: Data Mining Theory, Systems and Applications

- Foundations of Data Mining
- Data Mining and Machine Learning Algorithms and Methods, Statistics and Probability in Large-Scale Data Mining, Optimization Techniques for Data Mining, Neural Nets & Simulation
- Soft Computing (including Neural Networks, Fuzzy Logic, Evolutionary Computation, and Rough Sets) and Uncertainty Management for Data Mining
- Data Warehousing, OLAP, and Knowledge Discovery
- Human-Machine Interaction and Visualization in Data Mining
- Information Systems and Security
- Business Information Systems
- Data Mining Applications

Area 3: Computer Vision and Image Processing

- Computer and VLSI design
- Computed Tomography
- Pattern Recognition
- Audio, Image, Video Processing
- Medical Image Processing
- Optimization Techniques for Image Processing
- Multimedia Computing Systems and Appliances
- Multimedia Applications

Special sessions, dedicated to "Optimization in Industry", "Genomics, Bioinformatics" and "Clustering Analysis", and commercial presentations are envisaged. Companies interested in presenting their products/software/methodologies or researchers interested in holding a special section are invited to contact the conference secretariat. Further information on the Conference can be found in the website of the Conference:

[Http://www.lita.univ-metz.fr/~mco04/](http://www.lita.univ-metz.fr/~mco04/)

IMPORTANT DATES

Paper Submission: March 30, 2004

Author Notification: April 20, 2004

Early registration: May 5, 2004

Last version of accepted papers: May 5, 2004

Conference Dates: July 1 to 3, 2004

Paper submission to special issues: October 30, 2004