

Important Dates

Special session proposal	Nov. 1, 2014
Paper Submission	Jan 10, 2015
Author Notification	Feb 20, 2015
Last version of accepted papers	Mar 1, 2015
Early registration	Mar 15, 2015
Conference Dates	May 11-13, 2015

SPECIAL SESSION & WORKSHOP

The **MCO 2015** invites proposals for Workshops & Special Sessions to be held during the conference. They intend to provide researchers in focused areas the opportunity to present and discuss their work, as well as to offer a forum for interaction among a broader community of researchers.

A Special Session or Workshop will consist of a group of papers in a sub-discipline of Modelling, Computation and Optimization in Information Systems and Management Sciences related to the main topics of MCO 2015.

The papers will be required to meet the same standards as MCO 2015 papers and will be published in the conference proceedings, in a bound volume by Springer-Verlag in their *Advances in Intelligent Systems and Computing* series. All the Special Sessions will be centralized as tracks in the same conference submission and reviewing system as the regular papers.

INTERNATIONAL PROGRAM COMMITTEE

The International Scientific Committee of MCO 2015 includes more than 50 members of about 18 countries all the world over.

Program Co-chairs:

Le Thi Hoai An	University of Lorraine, France
Pham Dinh Tao	National Institute for Applied Sciences, Rouen, France

PUBLICATIONS

The conference proceedings will be published in the series *Advances in Intelligent Systems and Computing of Springer-Verlag* and indexed by ISI Proceedings, DBLP, Ulrich's, EI-Compendex, SCOPUS, Zentralblatt Math, MetaPress, Springerlink.

Issues in ISI, SCI journals for the post-conference publication are planned.

To submit the paper in PDF or PS format (limited to 10 pages), please use the Latex style of Springer. Submissions should be done via the website of the conference. For more information, please visit:

<http://lita.sciences.univ-metz.fr/iccsama2015/MCO/cfp.php>

VENUE

Metz, located in the North East of France, about 330 kms away from the capital Paris and only one and a half hour by TGV, 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.

Centre Pompidou-Metz, Saint-Etienne cathedral, marina, mirabelle plum festival, ... everything you need for a great stay in Metz.



MCO 2015

Modelling, Computation and Optimization in Information Systems and Management Sciences

May 11-13, 2015
Metz - France



PRESENTATION

The third international conference on **Modelling, Computation and Optimization in Information Systems and Management Sciences**, organized by **Laboratory of Theoretical and Applied Computer Science, University of Lorraine, France**, will cover, traditionally, 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.

For more information, please visit the conference's website <http://lita.sciences.univ-metz.fr/iccsama2015/MCO/>

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CALL FOR PAPERS

You are invited to submit the paper in one of the following topics (but not limited to):

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

Area 2: Data Mining Theory, Systems and Applications

- Foundations of Data Mining
- Big Data

- Data Mining and Machine Learning Algorithms and Methods
- Soft Computing 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 in Electronic Commerce, Bioinformatics, Computer Security, Web Intelligence, Intelligent Learning Database Systems, Finance, Marketing, Healthcare, Telecommunications, and other fields

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

Area 4: Computer Communications and Networks

- Cross-Layer Design and Optimization
- Communications & Information Theory
- Signal Processing for Communications
- Network Security
- Networking Algorithms and Performance Evaluation

Area 5: Optimization and Search techniques for Security, Reliability, Trust

- Intrusion detection
- Cryptography, Cryptanalysis
- Security protocols
- Quality of Services
- Trust Management