

# World Congress on Global Optimization (WCGO2009)

2009.6.1-2009.6.5

Zhangjiajie, Hunan, China

<http://madis1.iss.ac.cn/wcgo2009>



## Call for Papers and Workshop Proposals

The First World Congress on Global Optimization in Engineering & Science (WCGO2009) will be held on 1-5 June 2009 in Hunan University and Zhangjiajie, Changsha, Hunan, China. We are pleased to invite you to attend this great event and to submit papers and workshop proposals. All accepted papers will be published in the Lecture Notes in Operations Research published by World Publishing Corporation (*ISTP indexed*) after congress. Some selected high-quality papers will be published in the special issues of several SCI/SCI-E indexed main-stream international journals including *Journal of Global Optimization (SCI)*, *Journal of Industrial and Management Optimization (SCI)*, *Fuzzy Optimization and Decision Making (SCI)*, and *Optimization Letters (EI)*.

Global optimization is a multi-disciplinary research field that deals with the characterization and computation of global minima and/or maxima of nonlinear, nonconvex, nonsmooth and discrete functions. Global optimization problems are frequently encountered in modeling real world systems for a very broad range of applications including aerospace and civil engineering, chemical and process engineering, computational biology and bioinformatics, computational materials science, clustering and pattern recognition, computer vision and robotics, cryptography and data mining, electrical and control engineering, information and technology management, industrial and systems engineering, communication and information network design, intelligent information and security, management science and operations research, mathematical economics and financial engineering, mechanical and structural engineering, neuroscience and cognition, refining and petrochemicals, reliability and quality engineering, signal and image processing, seismic optimization, production planning and scheduling, transportation and logistics, etc.

With the rapid development and deployment of practical global optimization methodologies in the last thirty years, more and more scientists in diverse disciplines have been using global optimization techniques and algorithms to solve their respective problems. Global optimization is playing a pivoting role in the development of modern engineering and sciences. The field has become mature enough to call for the establishment of a world congress.

The First World Congress on Global Optimization in Engineering & Science (WCGO2009) will be held on 1-5 June 2009 in Hunan University and Zhangjiajie, Hunan, China. A primary goal of this congress is to offer an international forum for researchers and practitioners in the field to exchange ideas and present original research work on the theory and applications of global optimization. The conference will be organized by Academy of Mathematics and Systems Science of the Chinese Academy of Sciences, Hunan University, co-sponsored by Polytechnic University of Hong Kong, Chinese University of Hong Kong and the National Natural Science Foundation of China (NSFC)

### Topics of Interest

The World Congress solicitously invites original contributions on all relevant topics related to Global Optimization in Engineering & Science, include (but not limited to):

Automatic Differentiation

Canonical Duality

Chaotic Systems

Combinatorial/Integer Optimization

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Complementarity Problems  
Concave Minimization Programming  
Constraint Satisfaction  
DC programming  
Dynamic Programming  
Exact Penalty Techniques and Error Bound Analysis  
Fuzzy Optimization and Soft Computing  
Game Theory  
Generalized Convexity  
Heuristic and/or Meta-Heuristic Methods  
Interior Point Methods  
Inverse and Ill-posed Problems  
Machine Learning, SVM  
Mathematical Programs with Equilibrium Constraints  
Monotonic Optimization  
Multi-level and Multi-objective Optimization  
Network Optimization  
Neural Networks and Pattern Recognition  
Computer Vision and Machine Intelligence  
Nonconvex and Nonsmooth Mechanics  
Nonconvex Quadratic Programming  
Nonlinear Programming  
Nonsmooth Optimization  
Optimal Control  
PDE Level Set Methods  
Polynomial Optimization  
Reformulation Techniques  
Robust Optimization  
Semi-definite and Semi-infinite Programming  
Shape Optimization  
Statistical Learning and Kernel Methods  
Stochastic Optimization  
Variational Inequalities  
Variational Methods for PDE  
Managerial and Business Applications  
Engineering and Industrial Applications  
Biological Systems and Applications  
Health Care Systems and Applications  
Scientific Applications

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### **Important Dates**

Full paper submission:	March 15, 2009
Paper Acceptance Notification:	May 1, 2009
Camera-ready papers:	May 15, 2009
Registration:	March 15--May 15, 2009
Conference Date:	June 1-5, 2009

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Further Information: [wcgo2009@yahoo.cn](mailto:wcgo2009@yahoo.cn)

For more details about Zhangjajie National Park: <http://www.zjjok.com/english/>

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