FIRST ANNOUNCEMENT
CFP – 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 100 members of about 30 countries all the world over. This Conference 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):

Chemical and Process Engineering
Classification, MDS
Computational Biology/Bioinformatics
Computational Materials Science
Computer Vision and Robotics
Cryptography
Data Mining
Electrical and Control Engineering
Engineering Design
Finance, Financial Engineering
Information and Technology Systems
Industrial Engineering
Information and Communication Networks
Information Systems and Security
Intelligent Information and Technology
Management Science
Mathematical Economics
Mechanical and Structural Engineering
Multidisciplinary Design Optimization
Operations Research
Refining and Petrochemicals
Robotics and Control
Seismic Optimization
Signal and Image Processing
Tomography
Transportation
Production Planning and Scheduling
Logistics, etc

Topics include (but not limited to):
Integer Programming, Combinatorial Optimization
Complementarity Problems
Concave Minimization Programming,
DC programming
Dynamic Programming
Exact Penalty Techniques and Error Bounds
Fuzzy Optimization
Game Theory
Global Optimization
Heuristic and/or Meta-Heuristic Methods
Interior Point Methods
Inverse and Ill-posed Problems
LMI
Machine Learning, SVM
Mathematical Programs with Equilibrium Constraints
Multiobjective Optimization
Monotonic Optimization
Network Optimization
Nonlinear Multilevel Programming
Nonlinear Programming
Nonconvex Quadratic Programming
Nonsmooth Optimization
Optimal Control
Polynomial Optimization
Robust Optimization
Semidefinite Programming
Shape Optimization
Statistical Learning and Kernel Methods
Stochastic Optimization
Semi-infinite Programming
Variational Inequalities, etc.

Contributions to the mathematical modelling and the solution of real-life problems are particularly appreciated.
To submit extended abstracts, proposals of special sessions and papers to Special Issues dedicated to NCP07, you can refer to the related menu items.
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. More than six Special Issues of International Journals dedicated to NCP07 will publish selected papers presented at this Conference. (see the menu item CFP-Special Issues)
Chair of 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.