

OCA2003 --- The Third International Conference on Optimization and Control with Applications

1. Date: July 1-7, 2003.

2. Place: Chongqing-Chengdu-Jiuzhaigou, Chongqing City and Sichuan Province, China.

3. Sponsors and Organizers:

The Hong Kong Polytechnic University (PolyU)  
The Institute of System Science, CAS (ISS)  
Chongqing University (CQU)  
Chongqing Normal University (CNU)  
Sichuan University (SCU)

4. Topics:

Engineering Applications  
Financial Optimization  
Generalized Convexity  
Global Optimization  
Nonlinear Programming  
Optimal Control  
Semi-infinite Programming  
Software of Optimization and Control  
Structural Optimization  
Systems of Nonlinear Equations  
Variational Inequalities

5. Special Volume:

A refereed book edited by Guangya Chen, Shui-hung Hou and Xinmin Yang will be published by Kluwer Academic Publishers

6. Organizing Committee

Directors: Liqun Qi (PolyU) and Kok Lay Teo (PolyU)  
Scientific Committee Chairs: Masao Fukushima (Japan) and Shouyang Wang (ISS)  
Local Chairs: Sifang Fu (CNU), Dan Yang (CQU) and Jiang Yang (SCU)  
Program Advisor: Zemin Li (CQU)  
Program Chairs: Xiaoqi Yang (PolyU), Xinmin Yang (CNU) and Jiuping Xu (SCU)  
Treasurer: Zhe Chen (CNU)

7. Invited Talks:

Guangya Chen, ``On Subdifferentiability of Vector-valued and Set-valued Functions''  
Xiaojun Chen, ``Optimality Conditions and Numerical Methods for Nonsmooth Constrained Optimal Control Problems''  
Tom Coleman, ``Minimizing CVAR for a Portfolio of Financial Derivatives''  
Gianni Di Pillo, ``A Truncated Newton Algorithm for Large Scale Constrained Optimization Problems Converging to Second Order Stationary Points''  
Shu-Cherng Fang, ``Some Game Theoretic Analysis for Supply Chain Management''  
Masao Fukushima, ``Some Metaheuristics in Nonlinear Global Optimization''  
David Gao, ``Perfect Duality Theory and Complete Solutions to a Class of

Nonconvex Optimization Problems with Applications"  
 David Hill, ``Optimisation for Control of Complex Systems"  
 Carl T. Kelley, ``Design of Groundwater Remediation Systems with  
 Sampling Methods"  
 Bernd Kummer, ``Which generalized derivatives can be really computed  
 ?"  
 Takahito Kuno, ``Potential of Global Optimization Algorithms as  
 Heuristics"  
 Duan Li, ``Hidden Convex Optimization"  
 Kees Roos, ``A Comparative Study of New Barrier Functions for  
 Primal-Dual Interior-Point Algorithms in Linear Optimization"  
 Siegfried Schaible, ``Recent Results on Generalized Monotone  
 Equilibrium  
 Problems"  
 Jie Sun, ``Semismooth Newton Methods for Matrix Equations"  
 Tetsuzo Tanino, ``Cooperative Games with Restrictions on Coalitions"  
 Song Wang, ``On Numerical Approximation of a Variational Inequality  
 Governing American Option Pricing"  
 Felix Wu, ``Optimization and Control of Power Systems in a  
 Deregulated  
 Environment"  
 Soon-Yi Wu, ``Some Topics on Semi-Infinite Programming"  
 Jen-Chih Yao, ``Variational Inequalities with Applications to Bilevel  
 Decision Problems"  
 Wuyi Yue, ``Queueing Model and Analysis of Multimedia Communication  
 Networks"  
 Yin Zhang, ``An Active-set Algorithmic Framework for Semidefinite  
 Programming"

#### 8. Scientific Committee

N.U. Ahmed, University of Ottawa, Canada  
 Lou Caccetta, Curtin University of Technology, Australia  
 Guangya Chen, The Institute of System Sciences, CAS, Beijing  
 Xiaojun Chen, Hirosaki University, Japan  
 Hanfu Chen, The Institute of System Sciences, CAS, Beijing  
 Shucherng Fang, North Carolina State University, USA  
 David Gao, Louisiana Tech University, USA  
 Jerzy Filar, University of South Australia, Australia  
 Masao Fukushima, Kyoto University, Japan, Co-Chair  
 V. Jeyakumar, University of New South Wales, Australia  
 Carl T. Kelley, North Carolina State University, USA  
 Masakazu Kojima, Tokyo Institute of Technology, Japan  
 Duan Li, Chinese University of Hong Kong, Hong Kong  
 Panos M. Pardalos, University of Florida, USA  
 Cees Roos, Delft University of Technology, The Netherlands  
 Alex M. Rubinov, University of Ballarat, Australia  
 Siegfried Schaible, University of California, Riverside, USA  
 Jie Sun, National University of Singapore, Singapore  
 Wenyu Sun, Nanjing Normal University, Nanjing  
 Tetsuzo Tanino, Osaka University, Japan  
 Michel Thera, Universite de Limoges, France  
 Shouyang Wang, The Institute of System Sciences, CAS, Beijing,  
 Co-Chair  
 Song Wang, University of Western Australia, Australia  
 Soon-Yi Wu, The National Cheng Kung University, Taiwan  
 Gang Yu, University of Texas at Austin, USA  
 Yaxiang Yuan, Institute of Computing Mathematics and Engineering  
 Computations, CAS, Beijing  
 Wuyi Yue, Konan University, Japan  
 Xiangsun Zhang, Academy of Mathematics and System Sciences, Beijing  
 Yin Zhang, Rice University, USA

#### 9. Secretary:

Program Secretary: Eva Yiu (PolyU) <[maevayiu@polyu.edu.hk](mailto:maevayiu@polyu.edu.hk)>

## 10. Location and Tour

Chongqing is the economic center of Southwest China, located at the confluence of Yangtse River and Jialing River. Chendu is the capital of Sichuan Province, China. Sichuan is the natural living place of giant panda. Jiuzhaigou is a fairyland in Sichuan, China, one of the most beautiful places in China. OCA 2003 will be held in Chongqing, Chendu and Jiuzhaigou. You may find some photos of the fairland -- Jiuzhaigou, in the following websites:

<http://jiuzhaigou.yourwaywith.us/>  
<http://www.shim.org/~minhan/travel/jiuzhaigou.htm>

## 11. How to participate:

If you wish to contribute a talk in OCA2003, please send your abstract before March 31, 2003, to one of the Program Chairs. The e-mail addresses of the three Program Chairs are:

Xiaoqi Yang, <[mayangxq@polyu.edu.hk](mailto:mayangxq@polyu.edu.hk)>  
Xinmin Yang, <[maxmyang@polyu.edu.hk](mailto:maxmyang@polyu.edu.hk)>  
Jiuping Xu, <[xuejiping@mail.sc.cninfo.net](mailto:xuejiping@mail.sc.cninfo.net)>

If you wish to attend OCA2003 but not to give a talk, you may also contact one of the Program Chairs before May 15, 2003.

## 12. Registration

The first part of the conference will be held from July 1 to July 4. OCA 2003 participants are expected to arrive at Chongqing on June 30. The conference will organize the bus trip from Chongqing to Chengdu on July 2 evening. On July 4, the conference participants will go to Huanglong and Jiuzhaigou for the second part of the conference. They will be back to Chengdu on July 7 evening. They may leave from Chengdu on July 8.

In the following, the July 1-4 Chongqing-Chengdu part is called the first part of OCA 2003, the remaining part is called the second part of OCA 2003.

Cost and Registration fee for an overseas participant:

Hotel fee per room for the first four nights (June 30-July 3): US\$ 180.

Other fees (meals, transportation from Chongqing to Chengdu, etc) per person:  
US\$ 85.

Hence, the registration fee for the first part of OCA 2003:

1. Shared room: US\$ 175.
2. Own room without accompanying person: US\$ 265.
3. Own room with an accompanying person: US\$ 350.

Hotel fee per room for the second four nights (July 4 -July 7): US\$

200.

Other fees (meals, transportation for Chengdu-Huanglong-Jiuzhaigou-Chengdu, etc) per person: US\$ 90.

Hence, the registration fee for the second part of OCA 2003:

1. Shared room: US\$ 190.
2. Own room without accompanying person: US\$ 290.
3. Own room with an accompanying person: US\$ 380.

Deposit: 10% of the total registration fee. Participants may pay deposit more than 10% of the total registration fee, then pay less on site.

Please fill in the registration form and send it to Eva by e-mail before April 30.

Then send a bank draft of appropriate amount as the deposit (a personal check of a local Hong Kong bank is acceptable, but a bank draft is needed for an overseas participant) made payable to The Hong Kong Polytechnic University, to Ms. Eva Yiu, Department of Applied Mathematics, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong, before May 10, 2003.

To pay the full registration fee before that date is particularly welcome.

The deposit can be paid in US dollars or HK dollars (1 US dollar = 7.8 HK dollars).

The remaining part of the registration fee should be paid on the first day when the participant arrives at the conference site. It can be US dollars or RMB (1 US dollar = 8 yuans RMB).

Registration fee for a domestic participant (including meals and local transportation during the workshop, but not including hotel fee) as well as deposit payment methods can be obtained from any of the program chairs.

13. Homepage Address:

<http://www.polyu.edu.hk/~ama/events/conference/OCA2003/an1.html>

14. Visa and Invitation Letter

Participants who need an invitation letter for visa application may contact either Dr. Xiaoqi Yang or Dr. Xinmin Yang.

15. Registration Form for OCA 2003

Family Name:

Given Name:

Institute:

City:

Country:

Sex:

Nationality:

Title of the talk:

Abstract:

Participate in the Second Part of OCA 2003: Yes / No

Own room or shared room for the First Part: Yes / No

Own room or shared room for the Second Part: Yes / No

Accompanying person:

Family Name:

Given Name:

Need an additional room: Yes / No

Participate in the First Part of OCA 2003: Yes / No

Participate in the Second Part of OCA 2003: Yes / No

Total Registration Fee:

Total Deposit: