2009

2009 Workshop on Nonlinear Analysis and Optimization

Department of Mathematics
National Taiwan Normal University
November 25-27, 2009

● Foreign Speakers

1. Prof. Shigeo Akashi, Department of Information Sciences, Tokyo University of Science, Japan.
2. Prof. Sompong Dhompongsa, Department of Mathematics, Chiang Mai University, Thailand.
3. Dr. Takashi Honda, .
4. Prof. Takanori Ibaraki, Information and Communication Planning Office, Nagoya University, Japan.
5. Prof. Do Sang Kim, Department of Applied Mathematics, Pukyong National University, Korea.
6. Prof. Jong Kyu Kim, Department of Mathematics, Kyungnam University, Korea.
7. Prof. Yasunori Kimura, Department of Mathematical and Computing Sciences, Tokyo Institute of Technology.
8. Prof. Liqun Qi, Department of Applied Mathematics, The Hong Kong Polytechnic University.
9. Prof. Wataru Takahashi, .
10. Dr. Sangwoon Yun, Korea Institute for Advanced Study.

● Local Speakers

1.　　　　　　　(Sy-Ming Guu),
2.　　　　　　　(Lai-Jiu Lin),
3.　　　　　　　(Hong-Kun Xu),
4.　　　　　　　(Juhe Sun),
5.　　　　　　　(Ngai-Ching Wong),
6.　　　　　　　(Yu-Lin Chang),
7.　　　　　　　(Feng-Sheng Tsai),
8.　　　　　　　(Chin-Tzong Pang),

● Sponsors

College of Science, National Taiwan Normal University.
Mathematics Division, National Center for Theoretical Sciences, (Taipei Office).

● Organizers

(Mau-Hsiang Shih), E-Mail: mhshih@math.ntnu.edu.tw
(Jein-Shan Chen), E-Mail: jschen@math.ntnu.edu.tw

● Place

M210

November 25, Wednesday

09:30-10:15   Prof. Wataru Takahashi

Equilibrium Problems and Nonlinear Operators in Optimization

10:25-11:10   Prof. Sompong Dhompongsa

Fixed points of multivalued mappings in Banach and metric spaces

11:20-12:05   Prof. Lai-Jiu Lin (   )

Generalized Variational Relation Problems with Applications

Lunch Break

13:30-14:15   Prof. Hong-Kun Xu (   )

Splitting Methods for Monotone Operators and Their Applications in Signal Recovery

14:25-15:10   Prof. Takanori Ibaraki

Fixed point theorems for nonlinear mappings of nonexpansive type in Banach spaces

15:20-16:05   Prof. Chin-Tzong Pang (   )

Stability Analysis of Interval Systems

16:15-17:00   Prof. Shigeo Akashi

Hilbert's 13th problem and nonlinear approximation problems

November 26, Thursday

09:30-10:15   Prof. Liqun Qi

Higher Order Positive Semi-Definite Diffusion Tensor Imaging and Space Tensor Conic Programming

10:25-11:10   Prof. Sy-Ming Guu (   )

On a recurrence algorithm for the continuous-time linear fractional programming problems

11:20-12:05   Dr. Sangwoon Yun

An accelerated proximal gradient algorithm for nuclear norm regularized least squares problems

Lunch Break

13:30-14:15   Prof. Jong Kyu Kim

Strong convergence of hybrid projection methods for fixed point and equilibrium problems

14:25-15:10   Prof. Ngai-Ching Wong (   )

An unified hybrid iterative method for zeros or fixed points of nonlinear operators

15:20-16:05   Prof. Yasunori Kimura

Shrinking projection methods for families of nonlinear mappings

16:15-17:00   Prof. Do Sang Kim

Duality and Sufficiency in Nonsmooth Multiobjective Programming

November 27, Friday

09:10-09:50   Prof. Yu-Lin Chang (   )

Strong semismoothness of Fischer-Burmeister complementarity function associated with symmetric cone

09:55-10:35   Dr. Takashi Honda

Nonlinear retractions in Banach spaces

10:40-11:20   Dr. Juhe Sun (   )

Numerical Methods for solving cone constrained variational inequality problems

11:25-12:05   Dr. Feng-Sheng Tsai (   )

Collective Dynamics Decoding with Neural Circuit Labeling