

2012非線性分析與最佳化研討會

2012 Workshop on Nonlinear Analysis and Optimization

Department of Mathematics
National Taiwan Normal University
November 28-30, 2012

Foreign Speakers

- ◆ Prof. Shigeo Akashi, Tokyo University of Science, Japan
- ◆ Prof. Chek Beng Chua, Nanyang Technological University, Singapore
- ◆ Dr. Mayumi Hojo, Niigata University, Japan
- ◆ Prof. Yan Gao, University of Shanghai for Science and Technology, China
- ◆ Prof. Muddappa Gowda, University of Maryland at Baltimore County, USA
- ◆ Prof. Do Sang Kim, Pukyong National University, Korea
- ◆ Prof. Gue Myung Lee, Pukyong National University, Korea
- ◆ Prof. Wataru Takahashi, Tokyo Institute of Technology, Japan

Local Speakers

- ◆ 吳樹恆博士生 (Shu-Han Wu), 台灣師範大學數學系
- ◆ 林來居教授 (Lai-Jiu Lin), 彰化師範大學數學系
- ◆ 柯春旭教授 (Chun-Hsu Ko), 義守大學電機學系
- ◆ 徐洪坤教授 (Hong-Kun Xu), 中山大學應用數學系
- ◆ 陳政輝教授 (Jeng-Huei Chen), 政治大學應用數學系
- ◆ 陳鵬文教授 (Peng-Wen Chen), 台灣大學數學系
- ◆ 許瑞麟教授 (Ruey-Lin Sheu), 成功大學數學系
- ◆ 黃建豪博士生 (Chien-Hao Huang), 台灣師範大學數學系
- ◆ 劉于國博士生 (Yu-Guo Liu), 台灣大學數學系
- ◆ 賴漢卿教授 (Hang-Chin Lai), 中原大學應用數學系
- ◆ 譚必信教授 (Bit-Shun Tam), 淡江大學數學系

Sponsors

台灣師大理學院 (College of Science, National Taiwan Normal University)
國科會數學研究推動中心 (Mathematics Research Promotion Center, NSC)

Organizers

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

Place

台北市文山區汀州路四段八十八號台灣師大數學系M210



November 28, Wednesday

09:00-09:40 Prof. Wataru Takahashi

Nonlinear analytic methods for linear operators in Banach spaces

09:40-10:20 Prof. Shigeo Akashi

***Asymptotic behavior of the orbits of the dynamical systems
constructed from generalized Collatz-mappings***

Tea Break

10:40-11:20 Prof. Lai-Jiu Lin (林來居)

Bregman distance and related results on Banach spaces

11:20-12:00 Prof. Gue Myung Lee

On mathematical programs with equilibrium constraints

Lunch Break

14:00-14:40 Prof. Hang-Chin Lai (賴漢卿)

Multicriteria minimax programming problem in complex space

14:40-15:20 Dr. Mayumi Hojo

***Fixed point theorems and convergence theorems for non-self mappings
in Hilbert spaces***

Tea Break

15:40-16:20 Prof. Yan Gao (高岩)

Piecewise smooth Lyapunov function for a nonlinear dynamical system

16:20-17:00 Prof. Hong-Kun Xu (徐洪坤)

Gradient-based proximal methods for compressed sensing

November 29, Thursday

09:00-09:40 Prof. Seetharama Gowda
Z-transformations in complementarity theory and dynamical systems

09:40-10:20 Prof. Chek Beng Chua
A barrier-based smoothing proximal point algorithm for nonlinear complementarity problems over closed convex cones

Tea Break

10:40-11:20 Prof. Ruey-Lin Sheu (許瑞麟)
Tightening a copositive relaxation for standard quadratic optimization problems

11:20-12:00 Prof. Chun-Hsu Ko (柯春旭)
Optimal grasping manipulation for multifingered robots using semismooth Newton method

Lunch Break

14:00-14:40 Prof. Peng-Wen Chen (陳鵬文)
A perfect match condition for point-set matching problems using the optimal mass transport approach

14:40-15:20 Prof. Jeng-Hui Chen (陳政輝)
Optimal policies of non-cross-resistant chemotherapy on a cancer model

Tea Break

15:40-16:20 Prof. Bit-Shun Tam (譚必信)
Maximal exponents of polyhedral cones

16:20-17:00 Prof. Do Sang Kim
Nonsmooth semi-infinite multiobjective optimization problems

November 30, Friday

09:10-09:50 Mr. Yu-Guo Liu (劉于國)

Optimization and applications for some tomography

10:00-10:40 Mr. Chien-Hao Huang (黃建豪)

Equilibria of abstract economies for Φ -majorized mappings

10:50-11:30 Mr. Shu-Han Wu (吳樹恆)

Thomas' Conjecture on Finite Distributive Lattices