非線形解析学と凸解析学の研究

2015 RIMS Workshop on Nonlinear Analysis and Convex Analysis

September 7–9, 2015

PROGRAM

Each name flagged with an asterisk is the speaker of the talk.

Sep. 7 (MON)

9:05〜9:25 Satoshi Kodama*, Shin-ya Kameyama, Shigeo Akashi, Yuka Ozeki, Akio Minagawa (Tokyo University of Science, Japan)
Inequality theoretic relations of the variance of a probability distribution and the gradient vectors characterized by its density function

9:25〜9:50 Do Sang Kim (Pukyong National University, Korea)
Approximate solutions for nonsmooth multiobjective optimization problems

9:50〜10:15 Gue Myung Lee (Pukyong National University, Korea)
On stability and genericity for semi-algebraic compact programs

10:30〜10:55 Jong Kyu Kim (Kyungnam University, Korea)
Fixed point theorems and convergence theorems for Lipschitzian type mapping in CAT(0) spaces

10:55〜11:20 Jong Soo Jung (Dong-A University, Korea)
An iterative algorithm for generalized mixed equilibrium problems, monotone mappings and pseudocontractive mappings

11:20〜11:45 Koji Aoyama (Chiba University, Japan)
Strongly quasinonexpansive mappings

13:05〜13:30 Toshiharu Kawasaki (Nihon University, Japan), Masashi Toyoda* (Tamagawa University, Japan)
Fixed point theorem and fractional differential equations related with neuron models

13:30〜13:55 Wei-Shih Du (National Kaohsiung Normal University, Taiwan)
New existence results of best proximity points and fixed points for $\mathcal{MT}(\lambda)$-functions

13:55〜14:20 Ruey-Lin Sheu (National Cheng Kung University, Taiwan)
On general $p-$regularized subproblems for $p > 2$

14:35〜14:55 Hirohito Inoue, Shoichi Kamada*, Koichiro Naito (Kumamoto University, Japan)
Transference principle on simultaneous approximation problems of p-adic numbers and construction of lattice based cryptosystems

14:55〜15:15 Yi-Chou Chen (National Army Academy, Taiwan)
Infinitely many solutions of extended eigenvalue polynomial problems

15:15〜15:35 Ing-Jer Lin*, Ya-Ling Chang (National Kaohsiung Normal University, Taiwan)
Some new generalizations of Karapinar's theorems

15:50〜16:20 Hang-Chin Lai*, Cheng Te Liu, Jin-Chirng Lee (National Tsing Hua University, Taiwan)
An inverse problem of the isomorphism theorem for $A^p(G)$-algebras, $1 \leq p < \infty$

16:20〜16:50 Sehie Park (Seoul National University, Korea)
On the KKM theory of locally p-convex spaces

Sep. 8 (TUE)

9:05〜9:25 Shin-ya Matsushita*, Li Xu (Akita Prefectural University, Japan)
On convergence of the methods for the best approximation problem

9:25〜9:50 Jae Hyoung Lee*, Gue Myung Lee (Pukyong National University, Korea)
On solving a dc optimization problem with SOS-convex polynomials and a support function

9:50〜10:15 Chih-Sheng Chuang (National Sun Yat-Sen University, Taiwan), Zenn-Tsun Yu (Nan Kai University of Technology, Taiwan), Lai-Jiu Lin* (National Changhua University of Education, Taiwan)
Mathematical programming for the sum of two convex functions with applications to lasso problem, split feasibility problems and image deblurring problem

10:30〜10:55 Jein-Shan Chen (National Taiwan Normal University, Taiwan)
How to construct complementarity functions and merit functions for circular cone complementarity problem

10:55〜11:20 Yu-Lin Chang*, Jein-Shan Chen (National Taiwan Normal University, Taiwan)
Construction of convex functions on Euclidean space

11:20〜11:45 Sachiko Atsushiba (University of Yamanashi, Japan)
Attractive points, acute points, fixed points and convergence theorems for nonlinear mappings

13:15〜13:40 Yasunori Kimura (Toho University, Japan)
Calculation errors of the iterative sequence in a geodesic space

13:40〜14:05 Shuechin Huang* (National Dong Hwa University, Taiwan), Yasunori Kimura (Toho University, Japan)
A projection method for quasinonexpansive mappings in complete metric spaces

14:05〜14:30 Shyh-Nan Lee (Chung Yuan Christian University, Taiwan)
Matrix computation of octahedral projection

14:45〜15:10 Yukio Takeuchi (Takahashi Institute for Nonlinear Analysis, Japan)
Acute points, attractive points, and fixed points

15:10〜15:35 Jiawei Chen (Southwest University, China), Yeong-Cheng Liou* (Cheng Shiu University, Taiwan), Jen-Chih Yao (Kaohsiung Medical University, Taiwan)
Bilevel vector pseudomonotone equilibrium problems: duality and existence

15:50〜16:20 Mau-Hsiang Shih (China Medical University, Taiwan)
The tendency toward a moving equilibrium

16:20〜16:50 Wataru Takahashi (Tokyo Institute of Technology, Keio University, Japan)
Iterative methods for split common fixed point problems in Banach spaces and applications

Sep. 9 (WED)

9:00〜9:20 Mayumi Hojo* (Shibaura Institute of Technology, Japan), Wataru Takahashi (Tokyo Institute of Technology, Keio University, Japan)
The strong convergence theorem for the split common fixed point problem in Banach spaces

9:20〜9:40 Nirattaya Khamsemanan*, Cholwich Nattee (Thammasat University, Thailand), Masayuki Numao (Osaka University, Japan)
A first-order logic and metric space

9:40〜10:00 M. Ali Khan (Johns Hopkins University, USA), Nobusumi Sagara (Hosei University, Japan)
Strongly measurable selectors of multifunctions in measure-compact Banach spaces

10:15〜10:40 Suthep Suantai (Chiang Mai University, Thailand)
Fixed point theorems for G-nonexpansive mappings in Banach spaces with graphs

10:40〜11:05 Somyot Plubtieng*, Tadchai Yuying (Naresuan University, Thailand)
Strong convergence theorems by hybrid and shrinking projection methods for sums of two monotone operators

11:05〜11:30 Poom Kumam (King Mongkut's University of Technology Thonburi, Thailand)
Fuzzy games for a general Bayesian abstract fuzzy economy model

13:00〜13:20 Araya Yousuke (Chiba Institute of Technology, Japan)
On set equilibrium problems as a unified approach

13:20〜13:40 Mitsuhiro Hoshino (Akita Prefectural University, Japan)
On conservation of states and learning processes in basic self-organizing maps with one-dimensionally indexed array

13:40〜14:00 Hiromichi Miyake (Tokyo City University, Japan)
Almost everywhere convergence of ergodic averages of certain order-preserving operators on L^1

14:15〜14:35 Ryohei Harada*, Daishi Kuroiwa (Shimane University, Japan)
Another Lagrange-type duality theorem for DC programming problem

14:35〜14:55 Kazuki Seto*, Daishi Kuroiwa (Shimane University, Japan)
Observation of the Picard iteration whose mapping has multiple fixed points

14:55〜15:15 Satoshi Suzuki*, Daishi Kuroiwa (Shimane University, Japan)
Necessary and sufficient optimality conditions for quasiconvex programming

15:30〜15:50 Toshiharu Kawasaki (Nihon University, Tamagawa University, Japan)
Fixed point theorems for contractively widely more generalized hybrid mappings in metric spaces

15:50〜16:10 Toshikazu Watanabe* (Nihon University, Japan), Masashi Toyoda (Tamagawa University, Japan)
Applied results of a fixed point theorem in partially ordered sets to fractional order boundary value problems