Nonlinear Analysis and Convex Analysis

RIMS Workshop, August 27–29, 2018

PROGRAM

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

Aug. 27 (Mon)

9:30–9:35	Wataru Takahashi (Keio University) Opening Address
9:35–10:05	Yu-Lin Chang (National Taiwan Normal University) Weighted means and related inequalities on SOC
10:05–10:35	Jein-Shan Chen (National Taiwan Normal University) The decompositions of two core non-symmetric cones
10:45–11:15	Jong Soo Jung (Dong-A University) Composite iterative methods for a general system of variational inequalities and fixed point problems
11:15–11:40	Takanori Ibaraki (Yokohama National University) Approximation of a zero point of monotone operators with errors in a Banach space
Lunch	
13:00–13:30	Lai-Jiu Lin (National Changhua University of Education) Simultaneous iteration for variational inequalities over common solutions for finite families of nonlinear problems
13:30–14:00	Mau-Hsiang Shih (China Medical University Hospital) Duality pairing of embedding trangulations through the octahedron
14:15–14:40	Mitsuhiro Hoshino (Akita Prefectural University) On local behavior on monotonization in basic self-organizing maps with one-dimensional array
14:40–15:05	Sachiko Atsushiba (University of Yamanashi) Attractive point and convergence theorems for hybrid-type sequences
15:20–15:50	N. T. T. Huong (Le Quy Don University), J.-C. Yao* (China Medical University), N. D. Yen (Vietnam Academy of Science and Technology) Connectedness structure of the solution sets of vector variational inequalities
15:50–16:20	Sehie Park (Seoul National University) Applications of convex-valued KKM maps
16:20–16:50	Wataru Takahashi (Keio University) Weak and strong convergence theorems for normally generalized hybrid mappings in Hilbert spaces

Aug. 28 (Tue)

9:00–9:30	Do Sang Kim (Pukyong National University) Second-order Karush-Kuhn-Tucker optimality conditions for smooth vector optimization problems
9:30–10:00	Gue Myung Lee (Pukyong National University) On calculation of resolvent of l_∞-norm and its applications
10:10–10:35	Jae Hyoung Lee* (Pukyong National University), Liguo Jiao (Pusan National University) Exact semidefinite programming relaxations for a class of nonsmooth fractional programming
10:35–11:00	Liguo Jiao* (Pusan National University), Jae Hyoung Lee (Pukyong National University) Solving robust fractional multiobjective programming problems with sos-convex polynomial data
11:10–11:35	Helene Frankowska (Univ Paris 06), Nobusumi Sagara* (Hosei University) Value functions and optimality conditions for nonconvex variational problems with an infinite horizon in Banach spaces

11:35–12:00 Yukio Takeuchi (Takahashi Institute for Nonlinear Analysis)
On monotonicity of mappings

Lunch

13:10–13:40 Jong Kyu Kim (Kyungnam University)
Hybrid extragradient methods for a common solution of a system of generalized mixed quasi-equilibrium problems of nonexpansive semigroups

13:40–14:05 Mayumi Hojo (Shibaura Institute of Technology)
Attractive point and mean convergence theorems for normally generalized hybrid mappings in Hilbert spaces

14:15–14:40 Toshiharu Kawasaki (Nihon University)
A strong convergence theorem for countable families of nonlinear nonself mappings in Hilbert spaces and applications

14:40–15:05 Yasunori Kimura (Toho University)
Equilibrium problems on geodesic spaces and approximation to their solutions

15:05–15:30 Atsumasa Kondo* (Shiga University) and Wataru Takahashi (Keio University)
Strong convergence theorems of Halpern's type for normally 2-generalized hybrid mappings in Hilbert spaces

15:40–16:05 Ryoji Fukuda* (Oita University), Aoi Honda (Kyushu Institute of Technology), Yoshiaki Okazaki (Fuzzy Logic Systems Institute)
Convergence theorems for fuzzy integrals of non distribution type

16:05–16:25 Takuto Kajimura*, Yasunori Kimura (Toho University)
A new definition of resolvents for convex functions on complete geodesic spaces

16:25–16:50 Daishi Kuroiwa (Shimane University)
A duality theorem for convex set optimization

Aug. 29 (Wed)

9:00–9:25 Toshikazu Watanabe (Meiji University)
Fixed point theorems for mixed monotone mappings in ordered metric spaces

9:25–9:50 Satoshi Suzuki*, Daishi Kuroiwa (Shimane University)
Optimality conditions for quasiconvex programming in terms of subdifferentials

9:50–10:10 Kazuki Seto*, Daishi Kuroiwa (Shimane University)
Observation of arcwise connected quasiconvex functions and its applications

10:20–10:40 Hiroyuki Ohtani*, Koji Okano*, Daishi Kuroiwa (Shimane University)
Observation of constraint qualification for the Lagrange-duality of extended real-value convex optimization problem

10:40–11:00 Takumi Murakami*, Yuya Sumida*, Daishi Kuroiwa (Shimane University)
Observation of constraint qualification for a Lagrange-type duality of extended real-valued DC optimization problem

11:00–11:25 Araya Yousuke (Akita Prefectural University)
Set relations revisited

Lunch

13:00–13:25 Yutaka Saito*, Yousuke Araya, Yutaka Kimura (Akita Prefectural University)
On optimality evaluation method between two sets each having density function

13:25–13:45 Yuto Ogata*, Tamaki Tanaka (Niigata University)
Approximate minimality in set optimization and its application

13:45–14:05 Hui Yu*, Tamaki Tanaka (Niigata University)
Computational algorithms and their improvement for set-relation-based scalarization functions

14:15–14:35 Koichiro Ike*, Tamaki Tanaka (Niigata University)
A characterization of comparison indices for fuzzy sets based on possibility theory

14:35–14:55 Yu Kobayashi*, Hideaki Iiduka (Meiji University)
Stochastic subgradient method for stochastic equilibrium problems with nonmonotone bifunctions and its application to multiclass classification

15:00–15:25 Shin-ya Matsushita (Akita Prefectural University)
On the resolvent of the sum of maximal monotone operators

15:25–15:45 Koji Aoyama (Chiba University)
Cutter mappings and subgradient projections in Banach spaces