非線形解析学と凸解析学の研究 Nonlinear Analysis and Convex Analysis

RIMS Workshop, August 30-September 1, 2017

PROGRAM

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

Aug. 30 (Wed)

Opening Address: Wataru Takahashi (Keio University, Japan) $9:05 \sim 9:35$ Ruey-Lin Sheu (National Cheng Kung University, Taiwan) Geometric properties for the level sets of quadratic functions and their applications $9:35 \sim 10:05$ Jein-Shan Chen (National Taiwan Normal University, Taiwan) Monotonicity and circular cone monotonicity associated with circular cones Tea Break $10:15 \sim 10:45$ Jong Kyu Kim (Kyungnam University, Korea) The viscosity approximation method for the implicit midpoint rule of nonexpansive mappings in Banach spaces $10:45 \sim 11:15$ Jong Soo Jung (Dong-A University, Korea) General iterative algorithms for nonexpansive mappings in Banach spaces 11:15~11:40 Koji Aoyama (Chiba University, Japan) Approximation of fixed points of nonexpansive mappings and quasinonexpansive mappings in a Hilbert space LUNCH $13:00 \sim 13:30$ Gue Myung Lee (Pukyong National University, Korea), Lai-Jiu Lin^{*} (National Changhua University of Education, Taiwan) Variational inequalities over split equality fixed point sets of strongly quasinonexpansive mappings with applications $13:30 \sim 14:00$ Mau-Hsiang Shih (China Medical University, Taiwan) The hidden convex structure behind Klee's geometric transversal structure Tea Break 14:15~14:40 Mayumi Hojo* (Shibaura Institute of Technology, Japan), Wataru Takahashi (Keio University, Japan) Fixed point and convergence theorems for two nonlinear mappings in Hilbert spaces $14:40 \sim 15:05$ Toshihiro Kosaki (Stera Link) Weak duality theorem and detecting infeasibility Tea Break $15:20 \sim 15:50$ Tae Hwa Kim (Pukyong National University, Korea) The split common fixed-point problems and their convergence theorems $15:50 \sim 16:20$ Sehie Park (Seoul National University, Korea) On multimap classes in the KKM theory $16:20 \sim 16:50$ Wataru Takahashi (Keio University, Japan) Weak and strong convergence theorems for two commutative nonlinear mappings in Banach spaces Aug. 31 (Thu)

$9:00 \sim 9:30$	Do Sang Kim (Pukyong National University, Korea)
	Generalized approximate solutions in multiobjective optimization problems
$9:30 \sim 10:00$	Gue Myung Lee (Pukyong National University, Korea)
	On alternating direction methods of multipliers for matrix optimization problems

10:10~10:35	Liguo Jiao, Jae Hyoung Lee [*] (Pukyong National University, Korea) Finding efficient solutions and decision makers for multicriteria SOS-convex polynomial opti- mization problems
10:35~11:00	Liguo Jiao [*] , Do Sang Kim (Pukyong National University, Korea) A note on multicriteria optimization via minimax programming
Tea Break	
$11:10 \sim 11:35$	Sachiko Atsushiba (University of Yamanashi, Japan) Approximation of attractive points of nonlinear mappings
11:35~12:00	Nirattaya Khamsemanan [*] , Cholwich Nattee (Thammasat University, Thailand) Gait recognition
LUNCH	
13:10~13:40	Narin Petrot (Naresuan University, Thailand) Algorithms for additive type of monotone inclusion problems
13:40~14:10	Poom Kumam (King Mongkut's University of Technology Thonburi, Thailand) Some best proximal points for global optimization with error estimates
Tea Break	
14:20~14:40	Kengo Kasahara [*] , Yasunori Kimura (Toho University, Japan) An iterative sequence for two resolvent operators on a complete CAT(1) space
$14:40 \sim 15:05$	Hiroyasu Mizuguchi (Chiba Institute of Technology, Japan) The measurement of the difference between orthogonalities in Radon planes
15:05~15:30	Takayuki Tamura (Chiba University, Japan), Mikio Kato (Kyushu Institute of Technology, Japan) Uniformly non-squareness of direct sums of Banach spaces
Tea Break	
$15:40 \sim 16:05$	Masashi Toyoda (Toho University, Japan) On Ran-Reurings' fixed point theorem
$16:05 \sim 16:30$	Yukio Takeuchi (Takahashi Institute for Nonlinear Analysis, Japan) A version of the classical Fenchel duality formula and maximal monotonicity of subdifferentials
16:30~16:55	Yasunori Kimura (Toho University, Japan) Convex minimization problems and the shrinking projection method
Sep. 1 (Fri)	
9:00~9:25	Toshiharu Kawasaki (Nihon University, Tamagawa University, Japan) Some mappings and fixed point theorems
9:25~9:50	Mitsuhiro Hoshino (Akita Prefectural University, Japan) On input distributions and convergence speed in self-organizing maps with one-dimensionally indexed array
9:50~10:10	Takanori Ibaraki, Shunsuke Kajiba (Yokohama National University, Japan), Yasunori Kimura (Toho University, Japan) Approximation of a common fixed point of two nonlinear mappings of nonexpansive type with nonsummable errors
Tea Break	
10:20~10:45	Masayuki Kageyama (Nagoya City University, Japan) (Tsinghua University, China) Risk analysis in the framework of Markov decision processes
10:45~11:10	Kenji Kimura (Shibaura Institute of Techenology, Japan) On a vectorizing function for some convex sets and graphical features of vectorized functions
11:10~11:35	Toshikazu Watanabe (Tokyo University of Information Sciences, Japan) Fixed point theorems in ordered metric spaces and applications to nonlinear boundary value problems
LUNCH	

13:00~13:20	Kazuki Seto [*] , Daishi Kuroiwa (Shimane University, Japan) A characterization of arcwise connected cone-quasiconvexity for set-valued maps
13:20~13:40	Makoto Kanehara [*] , Daishi Kuroiwa (Shimane University, Japan) On folk theorems of repeated multi-objective games
13:40~14:00	Takumi Murakami [*] , Yuya Sumida [*] , Daishi Kuroiwa (Shimane University, Japan) An observation of constraint qualifications for duality of DC optimization problems
Tea Break	
14:10~14:30	Kazuhiro Hishinuma [*] , Hideaki Iiduka (Meiji University, Japan) Iterative method for solving constrained quasiconvex optimization problems based on the Krasnosel'skiĭ-Mann fixed point approximation method
14:30~14:50	Yousuke Araya [*] , Yutaka Saito, Yutaka Kimura (Akita Prefectural University, Japan) On some extended formulations of vector equilibrium problem
14:50~15:10	Yutaka Saito [*] , Yutaka Kimura, Yousuke Araya (Akita Prefectural University, Japan) On a continuity of the complement sets of images of a set-valued map
Tea Break	
15:20~15:40	Hui Yu [*] , Tamaki Tanaka (Niigata University, Japan) Computational algorithms and numerical experiment for set-relation-based scalarizing functions
15:40~16:00	Koichiro Ike [*] , Tamaki Tanaka (Niigata University, Japan) Binary-relation-based difference evaluations for fuzzy sets and their numerical calculation meth- ods
16:00~16:20	Yuto Ogata [*] , Tamaki Tanaka (Niigata University, Japan) Approximate minimality in set optimization