## Nonlinear Analysis and Convex Analysis RIMS Workshop, September 2–4, 2019 <u>PROGRAM</u>

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

## Sep. 2 (Mon)

9:30 - 9:35	Wataru Takahashi (Keio University)
	Opening Address
9:35 - 10:00	Shin-ya Matsushita (Akita Prefectural University)
	On splitting methods for monotone operators
10:00-10:25	Takanori Ibaraki (Yokohama National University)
	Weak and strong convergence theorems for a family of nonlinear mappings in a
	Hilbert space
10:40-11:10	Do Sang Kim (Pukyong National University)
11:10-11:35	Approximate Optimality Conditions in Fractional Semi-infinite Multiobjective Op-
	timization
	Zhe Hong (Pukyong National University)
	On optimality conditions in robust optimization problems with locally Lipschitz
т 1	constraints
Lunch	
13:00-13:30	Jong Soo Jung (Dong-A University)
	Convergence of some iterative methods for monotone inclusion, variational inequal-
	ity and fixed point problems
13:30-15:55	Kazuki Seto*, Daishi Kuroiwa (Shimane University)
1410 1405	A fixed set theorem for set-to-set mappings
14:10-14:35	Toshinaru Kawasaki (Ninon University)
14.95 15.00	Fixed point and its iteration theorems of new mappings in Banach spaces
14:55-15:00	A new type of fixed point theorem
15:00-15:30	Hyun-Min Kim (Pusan National University)
15.00 15.50	Noblinearity and Conveyity on Matrix Equations
15.45 - 16.15	Sehie Park (Seoul National University)
10.10 10.10	Variational relation problems in abstract convex spaces
16:15-16:45	Wataru Takahashi (Keio University)
	Strong Convergence Theorems by Hybrid Methods for Noncommutative Two Non-
	linear Mappings in Banach Spaces
Sep. 3 (Tue)	
0.20 0.55	Satashi Suzuli (Chimana University)
9:30-9:33	Optimality conditions and constraint qualifications for quasiconyov programming
9.55-10.20	Daishi Kurojwa (Shimana University)
5.55 10.20	A linear scalarization for set ontimization and its prefered solutions
10.35 - 11.05	Gue Myung Lee (Pukyong National University)
10.00 11.00	On Learning System for Deep Neural Network
11:05-11:35	Jae Hyoung Lee (Pukyong National University)
	Polynomial mathematical programs with equilibrium constraints and SDP relax-
	ations
Lunch	
13:00 - 13:30	Nimit Nimana (Khon Kaen University) and Narin Petrot <sup>*</sup> (Naresuan University)
	Incremental proximal gradient algorithms for constrained composite convex opti-
	mization problems
13:30 - 14:00	Wiyada Kumam (Rajamangala University of Technology Thanyaburi), Habib ur
	Rehman and Poom Kumam (King Mongkut's University of Technology Thonburi)
	An inertial step on the extra gradient method for solving equilibrium problems
14:15-14:40	Sachiko Atsushiba (University of Yamanashi)
	Fixed point property and convergence theorems for hybird-type mappings

14:40-15:05	Mayumi Hojo <sup>*</sup> (Shibaura Institute of Technology) and Wataru Takahashi (Keio University)
	Weak Convergence Theorem for Infinite Families of Extended Generalized Hybrid
	Mappings in Banach Space
15:05-15:30	Atsumasa Kondo <sup>*</sup> (Shiga University) and Wataru Takahashi (Keio University)
	Approximation of a Common Attractive Point of Noncommutative Normally 2-
	Generalized Hybrid Mappings in Hilbert Spaces
15:45 - 16:10	Fumiaki Kohsaka (Tokai University)
	Fixed point problems in complete $CAT(1)$ spaces
16:10-16:35	Yasunori Kimura (Toho University)
	Recent developments in convex analysis and fixed point approximation on geodesic
	spaces
Sep. 4 (Wed)	
9:30-9:50	Yuto Ogata (Niigata University)
	On set scalarization functions for Gordan-type theorems of the alternative
9:50-10:10	Koichiro Ike <sup>*</sup> . Tamaki Tanaka (Nijgata University)
	A comparative study on continuity notions for set-valued mappings
10:10-10:30	Liu MengXue <sup>*</sup> . Tamaki Tanaka (Niigata University)
10110 10100	Some kind of continuity properties on composite functions of set-valued maps and
	scalarizing functions
10:45 - 11:10	Koji Aovama (Chiba University)
	On a uniformly nonexpansive sequence
11:10-11:35	Mitsuhiro Hoshino (Akita Prefectural University)
	On some conditions for ordering in learning process of one-dimensional arrayed self-
	organizing maps
11:35 - 12:00	Seiichi Iwamoto (Kyushu University), Yutaka Kimura <sup>*</sup> (Akita Prefectural Univer-
	sity)
	Semi-tridiagonal programming — complementary approach —
Lunch	
13.00 - 13.25	Toshikazu Watanabe (Meiji University)
10.00 10.20	Note on solutions of boundary value problems for fractional order beam equations
13:25 - 13:45	Hirovuki Ohtani <sup>*</sup> . Daishi Kuroiwa (Shimane University)
10.20 10.10	Constraint Qualification for KKT condition by Basic subdifferential
13:55-14:15	Koji Okano <sup>*</sup> Dajshi Kurojwa (Shimane University)
	Observation for Lagrange-type duality of canonical DC optimization
14.15 - 14.30	Koki Ishibasi <sup>*</sup> Daishi Kuroiwa (Shimane University)
11.10 11.00	Connection between the basic constraint qualification and the the conical EHP in
	convex optimization
14.30 - 14.45	Satoru Nishida* Daishi Kuroiwa (Shimane University)
11.00 11.10	Observation on constraint qualifications in a class of convex optimization
	observation on constraint quantications in a class of convex optimization