

Nonlinear Analysis and Convex Analysis

RIMS Workshop, August 29–31, 2022

PROGRAM

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

Aug. 29 (Mon)

- 10:00–10:10 Masashi Toyoda (Toho University)
Opening Address
- 10:10–10:40 Hidefumi Kawasaki (Kyushu University)
An n -dimensional intermediate theorem and its application to strategic games
- 10:40–11:10 Yasunori Kimura (Toho University), Shuta Sudo* (Toho University)
Monotone operators in complete geodesic spaces
- 11:10–11:40 Yasunori Kimura (Toho University), Tomoya Ogihara* (Toho University)
Resolvents of equilibrium problems in a geodesic space with negative curvature
- Lunch
- 13:00–13:30 Koji Aoyama (Chiba University)
Fixed point theorem for a Meir–Keeler type mapping in a metric space with a transitive relation
- 13:30–14:00 Sachiko Atsushiba (Tokyo Woman’s Christian University)
Convergence theorems for families of monotone nonexpansive mappings
- 14:00–14:30 Takashi Honda (Iwate University)
Classification of nonlinear projections in a Banach space
- 14:50–15:20 Yousuke Araya (Akita Prefectural University)
On the complete lattice approach in set optimization problem
- 15:20–15:50 Premyuda Dechboon*, Tamaki Tanaka (Niigata University)
Generalized cone-continuity of set-valued maps with scalarization
- 15:50–16:20 Longrio Platil (Niigata University), Tamaki Tanaka (Niigata University)
A generalization of fuzzy-set relations for intuitionistic fuzzy sets

Aug. 30 (Tue)

- 10:00–10:30 Yasunori Kimura (Toho University), Kazuya Sasaki* (Toho University)
A convex combination on geodesic spaces
- 10:30–11:00 Yasunori Kimura (Toho University), Tomoki Oguchi* (Toho University)
An approximation theorem to a solution to an equilibrium problem in complete CAT(1) spaces
- 11:00–11:30 Haruto Itagaki* (Toho University), Yasunori Kimura (Toho University)
Approximation of solutions for an equilibrium problem with a projection method in a geodesic space

Lunch

- 13:00–13:30 Hiroyasu Mizuguchi (Kansai University)
On the upper bound of a geometric constant and von Neumann-Jordan constant in Radon planes
- 13:30–14:00 Yasunori Kimura (Toho University)
Comparison of convergence theorems in a complete geodesic space
- 14:00–14:30 Yasunori Kimura (Toho University), Kenzi Satô* (Tamagawa University)
The sum of powered distances from vertices or edges of a triangle
- 14:50–15:20 Kenjiro Yanagi (Josai University)
Refinements of bounds for entropy and relative entropy and their applications
- 15:20–15:50 Takanori Ibaraki (Yokohama National University), Shunsuke Kajiba* (Yokohama National University), Yukio Takeuchi (Takahashi Institute for Nonlinear Analysis)
A weak convergence theorem for common fixed points of commutative two non-linear mappings
- 15:50–16:20 Mitsuhiro Hoshino (Akita Prefectural University)
On dot product type learning and closed class of states in SOM

Aug. 31 (Wed)

- 10:00–10:30 Yuto Ogata (Kanazawa-Gakuin University)
Robustness of multi-valued optimization problems via set relations
- 10:30–11:00 Syuuji Yamada (Niigata University)
Improvement of a Hessian matrix approximation method in DC programming
- 11:00–11:30 Toshikazu Watanabe (Tokyo University of Information Sciences)
Common fixed point theorems for Asymptotic Mappings in complete metric spaces
- 11:30–12:00 Masashi Toyoda (Toho University)
Fixed point theorem in a spherically complete ball space