AOBA-YAMA COLLOQUIUM FOR MATHEMATICAL BIOLOGY 2019

Workshop
"Mathematical modeling and models of population dynamics in biological and social systems"

WORKSHOP CHAIR: Hiromi SENO*

SUPPORTED by
Research Center for Pure and Applied Mathematics, Graduate School of Information Sciences, Tohoku University
SPONSORED by
Graduate School of Information Sciences, Tohoku University

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This workshop shall be planned to make a cross-over exchange of ideas between different interdisciplinary fields, expecting also a certain instructive value for the students interested in or studying in such an interdisciplinary field.

■ Schedule

Oct. 7 (Mon.) 13:00–17:00

OPENING

SESSION 1: Merlin Köhnke and Horst Malchow (Osnabrück University, Germany, Mathematics/Computer Science)
"Temporal, spatial and spatio-temporal patterns in reaction-diffusion models of bioinvasions and their control"

SESSION 2: Minoru Osawa and Takashi Akamatsu (Tohoku University, Engineering; Information Sciences)
"Equilibrium refinement for a model of non-monocentric internal structures of cities: A potential game approach"

SESSION 3: Michio Kondo (Tohoku University, Life Sciences)
"Ecological community: linking structure to dynamics"

Oct. 8 (Tue.) 12:20–13:45

LUNCHEON MEETING (with meals of no charge; pre-registration recommended)

Oct. 8 (Tue.) 14:00–17:00

SESSION 4: Takenori Takada (Hokkaido University)
"Semelparity analysis using randomly generated matrix models"

SESSION 5: Naoya Fujiwara (Tohoku University, Information Sciences)
"Tracking spreading events through human mobility data and networks"

SESSION 6: Emmanuel Dansu and Hiromi Seno (Tohoku University, Information Sciences)
"Population dynamics driven by interactions on the internet"

CLOSING

■ Venue

Graduate School of Information Sciences, Tohoku University
https://www.is.tohoku.ac.jp/jp/introduction/access.html
2F, Room 207

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■ Language for the workshop

English

■ Registration and fees

No registration and no fee, including the "LUNCHEON MEETING".

About the "LUNCHEON MEETING" on the second day, it is strongly recommended for the participant to make a pre-registration to the workshop chair.