

MIMS/CMMA

International Conference on Mathematical Modeling and Applications

Program

26 Tuesday

Chair: Ichiro Hagiwara

13:30 – 13:40

Opening

13:40 – 14:20

Minoru Taya (University of Washington, USA)

Design of Actuators Based on Origami Concepts

14:30 – 15:10

Vishwesh Guttal (Indian Institute of Science, India)

Evolutionary Models of Collective Movement in Animal Groups

15:20 – 16:00

Hirokazu Ninomiya (Meiji University, Japan)

Traveling Spots in an Excitable Medium and Ventricular Fibrillation

27 Wednesday

Chair: Daishin Ueyama

10:00 – 10:40

Luigi Garlaschelli (University of Pavia, Italy)

Antigravity Roads Are Visual Illusions

10:50 – 11:30

Ryo Kobayashi (Hiroshima University, Japan)

Locomotion of Animals, Design of Robots and Mathematics

11:40 – 12:40 One-Minute Presentation

(Lunch Break)

14:00 – 17:00 Poster Session

18:00-20:00 Banquet (Registration is required for the banquet; the fee is 4,000yen for general participants, and 2,500yen for students.)

28 Thursday

Chair: Kokichi Sugihara

10:00 – 10:40

Yoko Tanokura (Meiji University, Japan)

Sovereign Credit Risk Analysis through Statistical Modeling

10:50 – 11:30

Chiun-Chuan Chen (National Taiwan University, Taiwan)

Mathematical Understanding of Spot Replication in Reaction-Diffusion Systems

(Lunch Break)

Chair: Masayasu Mimura

13:30 – 14:10

Mituo Kawato (ATR, Japan)

Mathematical Modeling of Spontaneous Brain Activity and Psychiatry

14:20 – 15:00

Arzu Gönenç Sorguç (Middle East Technical University, Turkey)

Mathematics as a Mediating Link in Architecture

15:10 – 15:50

Masanori Arita (National Institute of Genetics, Japan)

Genetic, Protein, and Metabolic Networks: Which Choice Is Amenable to Modelling

15:50 – 16:00 Closing