

Session Schedule

Monday, 21st November

- 10:00-10:20 **Opening Remarks**
Shun-ichi Amari
RIKEN Brain Science Institute
- 10:20-11:40 **Complex network models of disease transmission: Simulation and Control of SARS**
Michael Small
The Hong Kong Polytechnic University
- 11:50-12:40 **Minimal Models of the Intermittent Androgen Suppression Therapy**
Takashi Shimada
Aihara Complexity Modelling Project, ERATO, JST
- 12:40-14:00 **Lunch Break**
- 14:00-15:20 **The limits of determinism in modelling neuronal integration**
Hugh Robinson
University of Cambridge
- 15:20-15:50 **Break**
- 15:50-16:40 **Mathematical-model-based design method for silicon neuron**
Takashi Kohno
Aihara Complexity Modelling Project, ERATO, JST
- 16:50-18:10 **Deterministic Modelling of Randomness with Application to Pattern Recognition**
Oscar De Feo
Swiss Federal Institute of Technology Lausanne

Tuesday, 22nd November

- 10:00-11:20 **Modeling of gene networks: from gene expressions to gene networks, and from gene networks to the mechanism of action**
Paul Brazhnik
Virginia Polytechnic Institute and State University
- 11:40-12:30 **Long-Term Effect of Noise in Genetic Toggle Switch**
Hirokazu Tozaki
Aihara Complexity Modelling Project, ERATO, JST
- 12:30-13:50 **Lunch Break**
- 13:50-15:10 **Electronic design and synchronization of genetic networks**
Miguel A.F. Sanjuan
Universidad Rey Juan Carlos
- 15:20-16:10 **Modeling of evolving networks with community structures**
Chunguang Li
Aihara Complexity Modelling Project, ERATO, JST
- 16:10-16:40 **Break**
- 16:40-17:30 **Synchronization and bifurcation phenomena in the Hindmarsh-Rose type models interconnected by electrical and inhibitory synapses**
Shigeki Tsuji
Aihara Complexity Modelling Project, ERATO, JST
- 17:30-18:20 **Short Oral Presentation by Each Poster Presenter**
- 18:30- **Banquet & Poster Session (Convention Hall)**

Wednesday, 23rd November

10:00-11:20 Asymptotic behavior of blinking (switched) networks of dynamical systems

Martin Hasler

Swiss Federal Institute of Technology Lausanne

11:40-12:30 Coupling-Induced Coherence Resonance without Noise

Gouhei Tanaka

The University of Tokyo

12:30-13:50 Lunch Break

13:50-15:10 Fixed Point Theory Framework for Exploiting Signal Modality

Danilo P. Mandic

Imperial College London

15:10-15:20 Closing Remarks

Kazu Aihara

The University of Tokyo

Aihara Complexity Modelling Project, ERATO, JST