

International Workshop on Early-warning Signals: from Fundamentals to Applications

Date: 2018/3/5, 6

Venue: As301/As302, IIS, The University of Tokyo

Agenda:

5th, Mon.

- 10:00 - 10:15 Kazuyuki Aihara (The University of Tokyo)
Opening remarks
- 10:15 - 11:30 Egbert van Nes (Wageningen University)
Critical transitions in ecology and society
- 11:30 - 13:00 Lunch
- 13:00 - 14:30 Egbert van Nes (Wageningen University)
Resilience indicators
- 14:30 - 14:45 Break
- 14:45 - 15:45 Makito Oku (University of Toyama)
On the covariance matrix of the stationary distribution of a noisy dynamical system
- 15:45 - 16:30 Fang Duan (The University of Tokyo)
DNB landscape and its application to various types of biomedical data

6th, Tue

- 10:30 - 11:30 Jeroen Lamb (Imperial College London)
Introduction to random dynamical systems
- 11:30 - 13:00 Lunch
- 13:00 - 14:30 Jeroen Lamb (Imperial College London)
Bifurcations in random dynamical systems and early warning signals
- 14:30 - 14:45 Break
- 14:45 - 15:45 Luonan Chen (CAS Key Laboratory of System Biology)
Identifying the tipping points of critical transitions for complex systems by dynamic network marker - Detecting the un-occurred diseases by dynamic network biomarker
- 15:45 - 16:30 Tadayoshi Matsumori (Toyota Central R&D Labs., Inc.)
Early-warning signals on complex networks - Relations between indicators based on dynamical network marker and network structures
- 16:30 - 16:40 Closing

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