

Program

Tuesday, 20 March
Parallel Session A.1: Foundations of Complexity Theory
Venue: Lecture Room 3, NEC Level 3

Chair: Mile GU (*Nanyang Technological University, SINGAPORE*)

- 1:30pm - [Occam's vorpal quantum razor: using quantum devices to efficiently model complex continuous-time stochastic processes](#)
- Thomas J. ELLIOTT (*Nanyang Technological University, SINGAPORE*)
 - Mile GU (*Nanyang Technological University, SINGAPORE; National University of Singapore, SINGAPORE*)
- 1:50pm - [The time of the archive: memory and interspecies relationality](#)
- Natasha LUSHETICH (*LaSalle College of the Arts, SINGAPORE*)
- 2:10pm - [Effort intensity moderates the relationship between affect and time perception: perceived speed of time as an index of engagement](#)
- Masato KAWABATA (*Nanyang Technological University, SINGAPORE*)
 - Nikos CHATZISARANTIS (*Curtin University of Technology, AUSTRALIA*)
- 2:30pm - [Complexity of the present: the constitution of time consciousness in Husserl's phenomenology](#)
- Sai Hang KWOK (*Nanyang Technological University, SINGAPORE*)
- 2:50pm - [Towards a dynamic theory of enacted complexity of time: the death of man](#)
- Kenneth T. GOH (*Singapore Management University, SINGAPORE*)
 - Brian T. PENTLAND (*Michigan State University, USA*)
- 3:10pm - End of parallel sessions

Program

Tuesday, 20 March
Parallel Session A.2: Urban Complexity
Venue: Lecture Room 4, NEC Level 3

Chair: Lock Yue CHEW (*Nanyang Technological University, SINGAPORE*)

- 1:30pm - [Applying complex network approach to research robustness of Hanoi bus network](#)
- Ngoc Dung BUI (*University of Transport and Communications, VIETNAM*)
 - Hieu Vu TRAN (*University of Transport and Communications, VIETNAM*)
 - Siew Ann CHEONG (*Nanyang Technological University, SINGAPORE*)
- 1:50pm - [Housing locale theory: agent-based modeling approach](#)
- Mikhail FILIPPOV (*Nanyang Technological University, SINGAPORE*)
- 2:10pm - [An analysis of the expansions of traffic processing bottlenecks](#)
- Wei Liang QUEK (*Nanyang Technological University, SINGAPORE*)
 - Lock Yue CHEW (*Nanyang Technological University, SINGAPORE*)
 - Ning Ning CHUNG (*Nanyang Technological University, SINGAPORE*)
- 2:30pm - [Various driving behaviors on highway system](#)
- Yulin XU (*HKUST, HONG KONG*)
 - Yee Man TAI (*HKUST, HONG KONG*)
 - Kwong Tai SIU (*HKUST, HONG KONG*)
 - Tat Shing CHOI (*HKUST, HONG KONG*)
 - Kiwing TO (*Academia Sinica, TAIWAN*)
 - K. Y. Michael WONG (*HKUST, HONG KONG*)
- 2:50pm - [Urban physics and its implementation in predicting economic growth related to high speed train development](#)
- Acep PURQON (*Bandung Institute of Technology, INDONESIA*)
 - Sparisoma VIRIDI (*Bandung Institute of Technology, INDONESIA*)
- 3:10pm - [Exchange driven processes with source and chipping](#)
- Emre ESENTURK (*University of Warwick, UK*)
 - Colm CONNAUGHTON (*University of Warwick, UK*)
- 3:30pm - End of parallel sessions

Program

Wednesday, 21 March

Parallel Session B.1: Economic Complexity

Venue: Lecture Room 3, NEC Level 3

Chair: Siew Ann CHEONG (*Nanyang Technological University, SINGAPORE*)

- 1:45pm - [How one might miss early warning signals of critical transitions in time series data: a systematic study of two major currency pairs](#)
- Haoyu WEN (*Nanyang Technological University, SINGAPORE*)
 - Massimo Pica CIAMARRA (*Nanyang Technological University, SINGAPORE*)
 - Siew Ann CHEONG (*Nanyang Technological University, SINGAPORE*)
- 2:05pm - [Proportional fairness applied for a monetization platform of free Wifi networks](#)
- Xuan Tung HOANG (*VNU University of Engineering and Technology, VIETNAM*)
 - Tien DZung NGUYEN (*AWING Technologies & Media JSC, VIETNAM*)
 - The Phong LE (*AWING Technologies & Media JSC, VIETNAM*)
- 2:25pm - [Agent based buying decision model for products with random and systematic marketing methods](#)
- Husin ALATAS (*Bogor Agricultural University, INDONESIA*)
 - Susi NUGRAHA (*Bogor Agricultural University, INDONESIA*)
 - Nida INSI (*Bogor Agricultural University, INDONESIA*)
 - Medria HARDHIENATA (*Bogor Agricultural University, INDONESIA*)
- 2:45pm - [Predictive modeling of Hong Kong housing price with intrinsic periodicity](#)
- Juntao WANG (*HKUST, HONG KONG*)
 - Wun Kwan YAM (*HKUST, HONG KONG*)
 - Kin Long FONG (*HKUST, HONG KONG*)
 - Ka Long MA (*HKUST, HONG KONG*)
 - Siew Ann CHEONG (*Nanyang Technological University, SINGAPORE*)
 - Chihiro SHIMIZU (*Nihon University, JAPAN*)
 - K. Y. Michael WONG (*HKUST, HONG KONG*)
- 3:05pm - End of Session B.1
- 3:30pm - Coffee break
- 4:00pm - Parallel sessions resume

Program

Wednesday, 21 March
Parallel Session B.2: Human Complexity
Venue: Lecture Room 4, NEC Level 3

Chair: Euc Man LEE (*Nanyang Technological University, SINGAPORE*)

- 1:45pm - [Bouncing back from adversity: a novel outlook on psychological resilience and its indicators from a complex systems perspective](#)
- Gabriela LUNANSKY (*University of Amsterdam, THE NETHERLANDS*)
 - Claudia VAN BORKULO (*University of Amsterdam, THE NETHERLANDS*)
 - Marieke WICHERS (*University of Groningen, THE NETHERLANDS*)
 - Laura BRINGMANN (*University of Groningen, THE NETHERLANDS*)
 - Sanne GIJZEL (*University of Wageningen, THE NETHERLANDS*)
 - Jessica HARTMANN (*University of Melbourne, AUSTRALIA*)
 - Angelique CRAMER (*University of Tilburg, THE NETHERLANDS*)
- 2:05pm - [Measuring a person over time: complexity in the study of psychological dynamics](#)
- Sacha EPSKAMP (*University of Amsterdam, THE NETHERLANDS*)
- 2:25pm - [A \(data driven\) network approach to schizophrenia](#)
- Adela-Maria ISVORANU (*University of Amsterdam, THE NETHERLANDS*)
- 2:45pm - [The attitudinal entropy \(AE\) framework](#)
- Jonas DALEGE (*University of Amsterdam, THE NETHERLANDS*)
- 3:05pm - [Why do communication structures differ across interprofessional teams?](#)
- Issac LIM (*National Healthcare Group, SINGAPORE*)
 - Gillian TOH (*Independent, SINGAPORE*)
- 3:30pm - Coffee break
- 4:00pm - Parallel sessions resume

Program

Wednesday, 21 March

Parallel Session C.1: Linguistics & Complex Networks

Venue: Lecture Room 3, NEC Level 3

Chair: Luca ONNIS (*Nanyang Technological University, SINGAPORE*)

- 4:00pm - [Integrating fuzzy AHP approach in evaluating the performance of complex supply chain network](#)
- C. Y. LAM (*Hiroshima University, JAPAN*)
- 4:20pm - [Knowledge evolution in physics research: an analysis of bibliographic coupling networks](#)
- Wenyuan LIU (*Nanyang Technological University, SINGAPORE*)
 - Andrea NANETTI (*Nanyang Technological University, SINGAPORE*)
 - Siew Ann CHEONG (*Nanyang Technological University, SINGAPORE*)
- 4:40pm - [Preliminary study on complex systems — several current research directions in complex systems](#)
- Bing-Hong WANG (*USTC, CHINA*)
- 5:00pm - [Social network limits language complexity](#)
- Matthew LOU-MAGNUSON (*Nanyang Technological University, SINGAPORE*)
 - Luca ONNIS (*Nanyang Technological University, SINGAPORE*)
- 5:20pm - [An agent-based model of infant language development: at the level of consciousness 2](#)
- Ganwei FU (*Nanyang Technological University, SINGAPORE*)
 - Helena GAO (*Nanyang Technological University, SINGAPORE*)
- 5:40pm - End of parallel sessions

Program

Wednesday, 21 March

Parallel Session C.2: Biological & Ecological Complexity

Venue: Lecture Room 4, NEC Level 3

Chair: Janice LEE (*Nanyang Technological University, SINGAPORE*)

- 4:00pm - **Presence of specialist and generalist genotype in a heterogeneous environment, niche separation and species divergence**
- Narayan BEHERA (*Dayananda Sagar University, INDIA*)
 - Gerdien DE JONG (*Utrecht University, THE NETHERLANDS*)
- 4:20pm - **Exploring recovery time of eutrophic lakes with a minimal phosphorus recycling model**
- Sifeng WU (*Peking University, CHINA*)
- 4:40pm - **Clade determination of influenza virus**
- Akhila DESHPANDE (*Nanyang Technological University, SINGAPORE*)
 - Fransiskus XAVERIUS IVAN (*Nanyang Technological University, SINGAPORE*)
 - Jie ZHENG (*Nanyang Technological University, SINGAPORE*)
 - Chee Keong KWOH (*Nanyang Technological University, SINGAPORE*)
- 5:00pm - **Cracking complexity of microbial communities. Multivariate temporal dynamics of microorganisms' structure and function under perturbations**
- Ezequiel SANTILLAN (*Singapore Centre for Environmental Life Sciences Engineering, SINGAPORE*)
 - Stefan WUERTZ (*Singapore Centre for Environmental Life Sciences Engineering, SINGAPORE*)
- 5:20pm - **Connecting bacterial metabolic dynamics with biofilm structure and colony pattern formation**
- Martin ROBERT (*Tohoku University, JAPAN*)
- 5:40pm - End of parallel sessions