

SEMINAR SERIES ON

**COMPLEX SYSTEMS, NETWORKS, CONTROL AND APPLICATIONS**

**Fridays, September 1 to December 15, 2017, 4:30pm - 5:30pm**  
 Room B6605 (Blue Zone) or **G6302** (Green Zone), City University of Hong Kong  
 Room CD634 (Enter from D or E core), Hong Kong Polytechnic University

 *Tea and coffee served at 4:15pm outside the venue*

**All seminars will be in English**

[The Centre for Chaos and Complex Networks](#) at the City University of Hong Kong and the [Department of Electronic and Information Engineering](#) at the Hong Kong Polytechnic University continue their joint seminar series in this semester, to present tutorial overviews and original research work in the general areas of systems theory, control, complex networks and their engineering applications. A list of tentative topics and schedule is as follows.

1 Sept	Prof. Qi Xuan, Zhejiang University of Technology, China <i>Task-oriented Social Network Data Mining</i> (Venue: BB6605, CityU, Chair: R. Chen)
8 Sept	Mr Xiongrui (John) Xu, Hong Kong Polytechnic University <i>Extortion Promotes Cooperative Behaviour on Complex Networks</i> (Venue: CD634, PolyU, Chair: M. Tse)
15 Sept	Prof. Ian Petersen, Australian National University, Australia <i>A Direct Coupling Coherent Quantum Observer for a Qubit, including Observer Measurements</i> (Venue: B6605, CityU, Chair: N. Chan)
22 Sept	Mr Zhicong Huang, Hong Kong Polytechnic University <i>Wireless Charging of Electric Vehicles</i> (Venue: CD634, PolyU, Chair: F. Lau)
29 Sept	Prof. Guoxiang Gu, Louisiana State University, USA <i>Kalman Consensus Filtering in the Presence of Data Packet Drops</i> (Venue: B6605, CityU, Chair: R. Chen)
6 Oct	Mr Kai Yin Fok, Hong Kong Polytechnic University <i>Additive Manufacturing: From an Undirected Rural Postman Problem Perspective</i> (Venue: CD634, PolyU, Chair: B. Cheng)
11 Oct (3pm)	Dr Gerardo Rubino, INRIA, France <i>Dependability analysis through Monte Carlo methods: the case of rare events</i> (Venue: G6302, CityU, Chair: M. Zukerman)
13 Oct	Prof. Xiang Chen, University of Windsor, Canada <i>Autonomous Operations as Optimization --- A Field Sensor Network Approach</i> (Venue: B6605, CityU, Chair: W. Tang)
13 Oct	Prof. Xiang Chen, University of Windsor, Canada <i>Autonomous Operations as Optimization --- A Field Sensor Network Approach</i> (Venue: B6605, CityU, Chair: W. Tang)
20 Oct	Dr Joey C. Y. Leung, Georgia Institute of Technology, USA <i>Modeling the synergy between phage and host immunity against an antibiotic-resistant infection</i> (Venue: CD634, PolyU, Chair: I. Ho)

27 Oct	Dr Chung Chan, City University of Hong Kong <i>Info-Clustering: From Mathematical Theory to Efficient Algorithms</i> (Venue: B6605, CityU, Chair: C. W. Tan)
3 Nov	Prof. Kunihiro Mitsubori, Takushoku University, Japan <i>Theoretical Analysis of One-Period Operation of Boost Converter by Mapping Method in Phase Space</i> (Venue: CD634, PolyU, Chair: M. Tse)
10 Nov	Ms Lu Zhong, City University of Hong Kong <i>Modeling the Intervention of HIV Transmission across Intertwined At-Risk Populations</i> (Venue: B6605, CityU, Chair: L. Dai)
17 Nov	Prof. Li Chen, Sun Yat-Sen University, China <i>Algebraic Soft Decoding of Reed-Solomon Codes Using Module</i> (Venue: CD634, PolyU, Chair: B. Cheng)
24 Nov	Mr Doujie Li, City University of Hong Kong <i>Domain Learning in Agents</i> (Venue: B6605, CityU, Chair: K.W. Chung)
1 Dec	Dr Fang Yi, Hong Kong Polytechnic University <i>Outage-Limit-Approaching Protograph LDPC Codes for Slow-Fading Wireless Communications</i> (Venue: CD634, PolyU, Chair: F. Lau)
8 Dec	Prof. Daniel Ho, City University of Hong Kong <i>Distributed Event-Triggered Communication Protocols in Networked Systems</i> (Venue: G6302, CityU, Chair: W. Tang)