

SEMINAR SERIES ON

COMPLEX SYSTEMS, NETWORKS, CONTROL AND APPLICATIONS

Fridays, September 4 to December 18, 2015, 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.

18 Aug (Tue) 2:30pm	Prof. Karl H. Johansson, KTH Royal Institute of Technology, Sweden <i>Cyber-secure Networked Control Systems</i> (Venue: G6302, CityU, Chair: J. Chen)
4 Sept	Prof. Guanrong Chen, City University of Hong Kong <i>Pinning Control and Controllability of Complex Networks</i> (Venue: B6605, CityU, Chair: W. Tang)
11 Sept	Dr Xiaofang Hu, City University of Hong Kong <i>Memristive Neural Networks: Design, Analysis and Applications</i> (Venue: CD634, PolyU, Chair: F. Lau)
18 Sept	Dr Song Fang, City University of Hong Kong <i>Towards Integrating Information and Control Theories for Networked Control: Information Constraints and Fundamental Limits</i> (Venue: B6605, CityU, Chair: N. Chan)
25 Sept	Dr Lingfu Xie, Hong Kong Polytechnic University <i>Mitigating Doppler Effects on Physical-layer Network Coding in VANET</i> (Venue: CD634, PolyU, Chair: I. Ho)
2 Oct	Day after National Day
8 Oct (Thur) 4:00pm	Prof. Ni-Bin Chang, University of Central Florida, USA <i>Remote Sensing and Sensor Networks in Support of Smart and Green Municipal Water Infrastructure Systems</i> (Venue: B6619, CityU, Chair: J. Chen)
9 Oct	Prof. Hideaki Ishii, Tokyo Institute of Technology, Japan <i>Resilient Consensus of Multi-Agent Networks in the Presence of Malicious Attacks</i> (Venue: B6605, CityU, Chair: J. Chen)
16 Oct	Dr Yicong Zhou, Macau University, Macau <i>Nonlinear Chaotic Operation Systems</i> (Venue: CD634, PolyU, Chair: B. Cheng)
23 Oct	Mr Sheng Jiang, Hong Kong Polytechnic University <i>An Approach to Constructing Regular Sparse Matrices with Large Girth (Minimum Cycle Length)</i> (Venue: B6605, CityU, Chair: L. Dai)
30 Oct	Mr Fan Chao, University of Electronic Science and Technology China <i>The Impact of Social Relationship on Human Mobility</i> (Venue: CD634, PolyU, Chair: F. Lau)

6 Nov	Prof. David Hill, University of Hong Kong <i>Smarter Grids as Distributed Learning Control</i> (Venue: B6605, CityU, Chair: T. Chow)
13 Nov	Dr Te Wu, Hong Kong Polytechnic University <i>Evolution of Parochial Altruism</i> (Venue: CD634, PolyU, Chair: B. Cheng)
20 Nov	Dr Liangyin Zhang, University of Hong Kong <i>The Modified Algebraic Riccati Equation and Its Applications</i> (Venue: B6605, CityU, Chair: K.W. Chung)
27 Nov	Dr Daihai He, Hong Kong Polytechnic University <i>The Cohort Effect in Childhood Disease Dynamics</i> (Venue: CD634, PolyU, Chair: M. Tse)
4 Dec	NOLTA Conference Week
11 Dec	Prof. Andrew C.S. Leung, City University of Hong Kong <i>Lagrange Programming Neural Network for Sparse Approximation</i> (Venue: B6605, CityU, Chair: G. Chen)
18 Dec	Dr Tao Liu, University of Hong Kong <i>Synchronization of Networks by Event-Triggered Control</i> (Venue: CD634, PolyU, Chair: M. Tse)
23 Dec	Prof. Shlomo Havlin, Bar-Ilan University, Israel <i>Failures and Recovery in Networks of Networks</i> (Venue: B6605, CityU, Chair: M. Zukerman)