

Technical co-sponsor:

IEEE Robotics and Automation/Control Systems Joint Chapter

Jointly present

SEMINAR SERIES ON

COMPLEX SYSTEMS, NETWORKS, CONTROL AND APPLICATIONS

Fridays, September 5 to December 12, 2014, 4:30pm - 5:30pm

Room B6605 (Blue 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 overview and original research work in the general areas of chaos and bifurcation, systems control, complex networks and their engineering applications. A list of tentative topics and schedule is as follows.

5 Sept	Dr Zike Zhang, Hangzhou Normal University <i>Information spreading on complex networks</i> (Venue: B6605, CityU, Chair: G. Chen)
12 Sept	Dr Xiaoke Xu, Dalian Nationalities University <i>Detecting social circles in ego networks and its applications</i> (Venue: CD634, PolyU, Chair: M. Tse)
19 Sept	Prof. Peter Caines, McGill University, Canada <i>Mean field game theory and the decentralized control of wireless networks</i> (Venue: B6605, CityU, Chair: D. Ho)
26 Sept	Dr Chor Yin Ho, Hong Kong Polytechnic University <i>Chaos in opto-mechanical systems</i> (Venue: CD634, PolyU, Chair: B. Cheng)
3 Oct	Prof. Xinchu Fu, Shanghai University <i>Epidemic spreading and global stability of an SIS model with delay on heterogeneous networks</i> (Venue: B6605, CityU, Chair: L. Dai)
10 Oct	Prof. Geza Kolumban, Pazmany Catholic University, Hungary <i>Software Defined Electronics: A Revolutionary New Paradigm for the Research and Design of Future Communications and Measurement Systems</i> (Venue: EF502 , PolyU, Chair: F. Lau)
17 Oct	Dr Zhihai Rong, Hong Kong Polytechnic University <i>Zero-determinant strategies of game theory</i> (Venue: B6605, CityU, Chair: T. Chow)
24 Oct	Dr Yichao Zhang, Tongji University <i>Local Nash equilibrium</i> (Venue: CD634, PolyU, Chair: B. Cheng)
31 Oct	Prof. Kevin Ao Tang, Cornell University, USA <i>Traffic engineering: From distributed static optimization to centralized transient control</i> (Venue: B6605, CityU, Chair: C.W. Tan)
7 Nov	Dr Chengqing Li, Xiangtan University <i>Network state-space analysis of chaotic maps in the digital domain</i> (Venue: CD634, PolyU, Chair: F. Lau)
14 Nov	Dr Wangli He, East China University of Science and Technology <i>Synchronization error estimation for heterogeneous dynamical networks via distributed impulsive control</i> (Venue: B6605, CityU, Chair: J. Chen)
20 Nov, 11:00 am	Prof. Jianbo Gao, Guangxi University <i>Broad applications of multiscale chaotic dynamics in engineering</i> (Venue: B5-211, 5/F Blue Zone, CityU, Chair: N. Chan)
21 Nov, 10:30 am	Dr Yong Liang Guan, Nanyang Technological University <i>Coding and signal processing for magnetic and semiconductor storage</i> (Venue: CD 634, PolyU, Chair: F. Lau)
21 Nov, 4:00pm	PUBLIC LECTURE (start at 4:00 pm) by Prof. Leon Chua , University of California at Berkeley, USA <i>What's new in Wolfram's new kind of science</i> (Venue: Theatre V322 Innovation Tower, PolyU , Chair: M. Tse)
28 Nov	Dr Franco Gentle, Universidad del Sur, Argentina <i>Bifurcation analysis of time delay system in the frequency domain</i> (Venue: B6605, CityU, Chair: K.W. Chung)
5 Dec	Prof. Tyrone Fernando, University of Western Australia, Australia <i>Functional Observability and Functional Observability Indices</i> (Venue: CD634, PolyU, Chair: M. Tse)
12 Dec	Dr Derek Pao, City University of Hong Kong <i>Researches on hardware architectures to detect computer virus</i> (Venue: B6605, CityU, Chair: K.T. Ko)