



Technical Co-sponsor: IEEE Hong Kong Section
Robotics and Automation/Control Systems Joint Chapter
Jointly present

SEMINAR SERIES ON
CHAOS, CONTROL AND COMPLEX NETWORKS
Fridays, 14 Sept – 14 Dec 2012, 4:30 pm – 5:30 pm
Room **B6605**, City University of Hong Kong
Or Room **CD634**, Hong Kong Polytechnic University
(All presentations 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 chaos and bifurcation, systems control, and their engineering applications. A list of tentative topics and schedule is as follows.

- 14 Sept Prof. David Hill, University of Sydney, Australia (Distinguished Scholar Chair Professor, HK PolyU)
Smarter Voltage Control -- Multi-objective, Coordinated, Adaptive (Venue: B6605, CityU, Chair: J. Chen)
- 21 Sept Dr Bin Wang, RMIT University, Australia
The Implementation Issue of Sliding Mode Control (Venue: CD634, PolyU, Chair: F. Lau)
- 28 Sept Miss Cuili Yang, City University of Hong Kong
Enhancement of Network Synchronization and Its Use in WSN Topological Design (Venue: B6605, CityU, Chair: A. Leung)
- 5 Oct Prof. Michael Tse, Hong Kong Polytechnic University
Get Panic or Synchronized in the Network of Stocks (Venue: CD634, PolyU, Chair: M. Tse)
- 12 Oct Prof. Hong Yan, City University of Hong Kong
Searching for Fundamental Laws of Biology, a Mathematical and Computational Perspective
(Venue: B6605, CityU, Chair: T. Chow)
- 19 Oct Mr Andreas Joseph, City University of Hong Kong
Composite Centrality in Search of a Universal Scale for Complexity (Venue: CD634, PolyU, Chair: B. Cheng)
- 24 Oct (Wed 3pm) Prof. G. A. Leonov, St Petersburg State University, Russia
General Existence Conditions of Homoclinic Trajectories in Dissipative Systems: Lorenz, Shimizu-Morioka, Chen and Lu systems
(Venue: G6302, CityU, Chair: G. Chen)
- 24 Oct (Wed 4pm) Dr N V Kuznetsov, St Petersburg State University, Russia
Nonlinear Analysis of Phase Synchronization Systems: Phase-locked Loop and Costas Loop (Venue: G6302, CityU, Chair: G. Chen)
- 25 Oct (Thurs 4pm) Prof. Shinji Hara, University of Tokyo, Japan
Glocal Control: A New Control Paradigm for Large-scale Networked Dynamical Systems (Venue: G6302, CityU, Chair: J. Chen)
- 26 Oct Mr Xiong Wang, City University of Hong Kong
Some Recent Discoveries and Challenges in Chaos Theory (Venue: B6605, CityU, Chair: K.W. Wong)
- 2 Nov Public Lecture: Prof. Leon O. Chua, University of California at Berkeley, USA (Distinguished Scholar Chair Professor, HK PolyU)
Memristors: Past, Present and Future (Venue: Y305, PolyU, Chair: M. Tse)
- 9 Nov Dr Chee Wei Tan, City University of Hong Kong
Wireless Network Optimization by Perron-Frobenius Theory (Venue: B6605, CityU, Chair: L. Dai)
- 16 Nov Dr Yijun Lou, Department of Applied Mathematics, Hong Kong Polytechnic University
Developing a Temperature-driven Map of the Emerging Tick Vector of Lyme Disease in Canada
(Venue: CD634, PolyU, Chair: B. Cheng)
- 23 Nov Prof. Tommy Chow, City University of Hong Kong
Revisit to Feature Selection: From Learning to Diagnosis (Venue: B6605, CityU, Chair: K.T. Ko)
- 30 Nov Ms Yue Min, Hong Kong Polytechnic University
Generalized LDPC Codes (Venue: CD634, PolyU, Chair: F. Lau)
- 7 Dec Dr Lin Dai, City University of Hong Kong
On the Capacity of Distributed Antenna Systems (Venue: B6605, CityU, Chair: C.W. Tan)
- 14 Dec Dr Gang Li, University of California at Los Angeles
Polymer Organic Photovoltaic (OPV) Device - A Journey to High Performance (Venue: CD634, PolyU, Chair: M. Tse)

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