



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, 11 Sept – 21 Dec 2009, 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.

- 11 Sept Prof. Ke Wu, Ecole Polytechnique Montreal, Canada
On Multi-Port Interferometer Techniques for Receiver and Transmitter System Applications (Venue: B6605, CityU, Chair: R. Chen)
- 18 Sept Dr David Walker, University of Melbourne, Australia
Force Chains and Network Motifs (Venue: CD634, PolyU, Chair: M. Small)
- 25 Sept Dr Takayuki Kimura, Hong Kong Polytechnic University (will be with Nagasaki University, Japan)
Efficient routing strategies for complex networks (Venue: B6605, CityU, Chair: W. Tang)
- 2 Oct **No seminar on day following National Day holiday**
Reserved (Venue: CD634, PolyU, Chair:)
- 9 Oct Dr Jie Zhang, Hong Kong Polytechnic University
From Structure to Dynamics and Back: Understanding and Predicting the Complex Dynamics of Complex Systems (Venue: B6605, CityU, Chair: T. Chow)
- 16 Oct Dr Francis Lau, Hong Kong Polytechnic University
Research on LDPC Codes (Venue: CD634, PolyU, Chair: S.C. Tan)
- 23 Oct Dr Linying Xiang, City University of Hong Kong
On the Controllability of Asymmetric Networks (Venue: B6605, CityU, Chair: K.W. Wong)
- 30 Oct Prof. Xinghuo Yu, RMIT University, Australia (now Visiting Professor at PolyU)
Smart Grids from a Complex Network Viewpoint (Venue: CD634, PolyU, Chair: M. Tse)
- 6 Nov Prof. Dong Sun, City University of Hong Kong
Infrastructure Networks: Data, Statics and Dynamics (Venue: B6605, CityU, Chair: A. Leung)
- 13 Nov Dr S.C. Wong, Hong Kong Polytechnic University
Nonlinear Phenomena in Wind Energy Generation Systems (Venue: CD634, PolyU, Chair: M. Tse)
- 20 Nov Prof. Moshe Zukerman, City University of Hong Kong
Fractal Traffic and Related Queueing Performance Research (Venue: B6605, CityU, Chair: K.W. Chung)
- 27 Nov Miss Wenjuan Wu, Nankai University
Topological Horseshoes in Integer-Order and Fractional-Order Chen's Attractors (Venue: CD634, PolyU, Chair: F. Lau)
- 4 Dec Prof. Michael Tse, Hong Kong Polytechnic University
Recomposing Music from Complex Networks (Venue: B6605, CityU, Chair: K.T. Ko)
- 11 Dec Dr Jiantao Zhou, Hong Kong University of Science and Technology
Multimedia Lightweight Encryption via Randomized Entropy Coding (Venue: CD634, PolyU, Chair: S.C. Tan)
- 18 Dec Prof. Stuart Milner, University of Maryland, USA
Physical System Dynamics for the Characterization and Control of Complex Wireless Networks (Venue: B6605, CityU, Chair: R. Chen)
- 21 Dec Prof. Larry Ho, Harvard University, USA
(Monday) *A Personal Account of the Past, Present and Future of Control Theory and Systems: Living the Experience from 1959 - 2009* - (Venue: B6605, CityU, Chair: D. Ho)