香港城市大學
City University of Hong Kong
混沌及複雜網絡研究中心
Centre for Chaos and Complex Networks

THE HONG KONG
POLYTECHNIC UNIVERSITY
Department of Electronic and Information Engrg.
香港理工大學 電子及資訊工程學系

◆IEEE 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, 13 Jan – 19 May 2010, **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.

13 Jan
(Wed 11:00am)
Prof. Frank Lewis, University of Texas at Arlington, USA
Online learning design of optimal control systems (Venue: B6619, CityU, Chair: R. Chen)

15 Jan
Prof. Xinghuo Yu, RMIT University, Melbourne, Australia
Symbolic dynamics approach for discrete-time nonlinear systems and control (Venue: G6302, CityU, Chair: R. Chen)

21 Jan
(Thursday 4:30pm)
Prof. Janet Wang, University of Arizona, USA
A self-calibrating design methodology for power efficient multi-core system (Venue: G6302, CityU, Chair: W. Tang)

22 Jan
Dr Philip Yam, Dept. of Applied Mathematics, Hong Kong Polytechnic University
Behavioral optimal insurance: its resolution of a socioeconomic enigma (Venue: CD634, PolyU, Chair: M. Tse)

29 Jan
Mr Wenwu Yu, City University of Hong Kong
Consensus in networked multi-agent systems (Venue: B6605, CityU, Chair: W. Tang)

5 Feb
Dr Adela Lau, School of Nursing, Hong Kong Polytechnic University
Ontology-enabled database management systems (Venue: CD634, PolyU, Chair: M. Tse)

12 Feb
Chinese New Year Eve

19 Feb
Prof. Xinchu Fu, Shanghai University, Shanghai
Propagation dynamics on complex networks (Venue: CD634, PolyU, Chair: M. Small)

22 Feb
(Monday 4:30pm)
Prof. Jonathan Manton, University of Melbourne, Australia
Reverse-engineering the Brain - an international grand challenge (Venue: G6302, CityU, Chair: S. Chan)

26 Feb
Prof. Clement Lam, Concordia University, Canada
Solving problems in discrete mathematics with computers (Venue: B6605, CityU, Chair: T. Chow)

5 Mar
Mr Yao Chen, Chinese Academy of Sciences, Beijing
Estimate the convergence speed of discrete-time multi-agent systems (Venue: CD634, PolyU, Chair: F. Lau)

12 Mar
Dr Xiaojuan Sun, Tsinghua University, Beijing
Synchronization and coherent resonance in neuronal networks (Venue: B6605, CityU, Chair: K.W. Chung)

15 Mar
(Monday 4:30pm)
Prof. Cetin Kaya Koc, Istanbul Sehir University, Turkey
A brief history of cryptographic hardware design (Venue: G6302, CityU, Chair: R. Chen)

Inquiry: G. Ron Chen (gchen@ee.cityu.edu.hk) or C.K. Michael Tse (encktse@polyu.edu.hk)

17 Mar (Wednesday 11:00am)	Prof. Tetsuro Endo, Meiji University, Japan *Transition from the standing pulse wave to the propagating pulse wave in a ring of coupled bistable oscillators* (Venue: CD634, PolyU, Chair: M. Tse)
19 Mar	Mr Xiaofan Liu, Hong Kong Polytechnic University *TBD* (Venue: CD634, PolyU, Chair: M. Tse)
22 Mar	Prof. Guoxiang Gu, University of Louisiana State University, USA *Networked feedback stabilization* (Venue: G6302, CityU, Chair:)
26 Mar	Prof. Xinchu Fu, Shanghai University, Shanghai *Periodicity and complexity of some dynamical systems with discontinuities* (Venue: G6302, CityU, Chair: K.W. Wong)
29 Mar (Monday 4:30pm)	Prof. Izhak Rubin, University of California, Los Angeles (UCLA), USA *Networking Across Mobile Wireless Networks* (Venue: G6302, CityU, Chair: M. Zukerman)
2 Apr	**Good Friday**
9 Apr	Prof. Keith Chan, Department of Computing, Hong Kong Polytechnic University *Discovering interesting structural patterns in complex biological networks* (Venue: CD634, PolyU, Chair: M. Tse)
13 Apr (Tuesday 4:30pm)	Prof. Kung Yao, University of California, Los Angeles, USA *Super efficient Monte Carlo simulation methodology based on novel use of correlated chaotic sequences* (Venue: CD634, PolyU, Chair: F. Lau)
16 Apr	Dr Joshua Lee, Department of Electronic Engineering, City University of Hong Kong *MEMS resonators: Tiny devices with big opportunities* (Venue: G5317, CityU, Chair: T. Ko)
23 Apr	Prof. Jie Chen, City University of Hong Kong *When will zeros of time-delay systems cross imaginary axis?* (Venue: CD634, PolyU, Chair: M. Small)
30 Apr	Dr Lam Yeung, City University of Hong Kong *Gradient approximation based system identification algorithms* (Venue: B6605, CityU, Chair: A. Leung)
7 May	Mr Wilson Thong, Department of Electronic Engineering, City University of Hong Kong *Complex congestion behavior in deflection routing* (Venue: CD634, PolyU, Chair: F. Lau)
13 May (Thursday 2:30pm)	Prof. Milivoj R. Belic, Texas A&M University at Qatar *Dancing light: Counterpropagating beams in photore-fractive and photonic crystals* (Venue: B6605, CityU, Chair: N. Chan)
14 May	Ms Ruoxi Xiang, Hong Kong Polytechnic University *Complex network properties from time series* (Venue: B6605, CityU, Chair: W. Tang)
19 May (Wednesday 4:30pm)	Prof. Gennady A. Leonov, St Petersburg State University, Russia *Strange attractors and classical stability theory* (Venue: B6605, CityU, Chair: Ron Chen)