





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

Jointly present

## SEMINAR SERIES ON

## CHAOS AND SYSTEMS CONTROL

Fridays, 21 January – 6 May 2005, 4:30 pm – 5:30 pm Room B6605 or G6302, City University of Hong Kong Or Room CD634, Hong Kong Polytechnic University (All presentations will be in English)

THE CENTRE FOR CHAOS CONTROL AND SYNCHRONIZATION 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 January Guoxiang Gu, Louisiana State University, USA

(Tuesday) Optimum cooperative UAV sensing based on Cramer-Rao bound (Venue: G6302, CityU)

17 January B. Larry Li, University of California at Riverside, USA

(Monday) Spatiotemporal complexity and dynamic regimes of biological invasion: A predator-prey system with the

Allee effect (Venue: G6605, CityU)

21 January Zhong Zhang, CityU

Design and implementation of a chaotic mixer (Venue: CD634, PolyU)

28 January Wenlian Lu, Fudan University

Geometric analysis of synchronization space for linearly coupled systems (Venue: B6605, CityU)

4 February Dong Dai, PolyU

Horseshoes in power electronics (Venue: CD634, PolyU)

11 February Public Holiday

18 February Yi Li, CityU

A Smith predictor-based PI-controller for AQM (Venue: G6302, CityU)

25 February Alfonso Albano, Bryn Mawr College, USA

Mutual information tracks dynamical changes in sleep EEG (Venue: CD634, PolyU)

4 March Tongwen Chen, University of Alberta, Canada

Network based control systems (Venue: B6605, CityU)

11 March Michael Small, PolyU

Surrogate data surrogates for models (Venue: CD634, PolyU)

18 March Ying-Cheng Lai, USA

Synchronization in complex networks (Venue: B6605, CityU)

25 March Public Holiday

1 April Federico Ignacio Robbio, Universidad Nacional del Sur, Argentina

Harmonic distortion and Hopf bifurcations (Venue: CD634, PolyU)

8 April Yongxiang Xia, PolyU

Scale-free user network approach to telephone network traffic analysis (Venue: G6302, CityU)

15 April Zhengping Fan, CityU

Complex network model of the Internet (Venue: CD634, PolyU)

22 April Daniel Ho, CityU

Estimator for nonlinear descriptor systems with application to sensor fault diagnosis

(Venue: B6605, CityU)

29 April Long Min, South China University of Technology

Thhe unpredictability of chaos (Venue: CD634, PolyU)

6 May Geng Zhao, Beijing Electronic and Technology Institute

Identity certification and cipher synchronization in speech information hiding (Venue: B6605, CityU)