



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, 1 Sept – 22 Dec 2006, 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 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.

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| 1 Sept | Prof. Yufan Zheng, Melbourne University, Australia
<i>Aggregation of Dynamical Agents in a Network</i> (Venue: B6605, CityU, Chair: D. Ho) |
| 8 Sept | Miss Xia Zheng, Hong Kong Polytechnic University
<i>LDPC Decoder Built on Complex Networks</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 15 Sept | Prof. John Hogan, University of Bristol, UK
<i>Impact Dynamics of Large Dimensional Systems</i> (Venue: B6605, CityU, Chair: T. Chow) |
| 22 Sept | Dr David Walker, Hong Kong Polytechnic University
<i>Kalman Filters and Applications to Time Series</i> (Venue: CD634, PolyU, Chair: M. Small) |
| 29 Sept | Mr Junfeng Sun, Hong Kong Polytechnic University
<i>Time-Frequency Analysis and Noise Reduction for Noisy Chaotic Time Series</i> (Venue: B6605, CityU, Chair: W. Tang) |
| 6 Oct | Prof. Gerard Olivar Tost, Universidad Nacional de Columbia, Columbia
<i>Control of Systems through Non-Smooth Bifurcations</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 9 Oct
(Mon) | Prof. Uri Shaked, Nanyang Technological University, Singapore
<i>Robust H_∞ Output-Feedback Control</i> (Venue: G6302, CityU, Chair:) |
| 13 Oct | Dr Fabiola Angulo, Universidad Nacional de Columbia, Columbia
<i>Fixed Point Induced Controller (FPIC): A New Technique for Controlling Chaos</i> (Venue: B6605, CityU, Chair: R. Chen) |
| 20 Oct | Prof. Hao Ying, Wayne State University, USA
<i>Real-Time Fuzzy Logic Control of Mean Arterial Pressure in Postsurgical Patients in Intensive Care Unit</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 27 Oct | Ms Kwok Wah Tang, City University of Hong Kong
<i>Chaos-Based Random Number Generators in Finite Precision Environment</i> (Venue: B6605, CityU, Chair: K.W. Chung) |
| 3 Nov | Dr Raymond Lee, IATOPIA Technology Limited
<i>Chaotic Neural Network and Neural Oscillators</i> (Venue: CD634, PolyU, Chair: M. Small) |
| 10 Nov | Dr K. Tim Ko, City University of Hong Kong
<i>Dimensioning of Hierarchical Wireless Networks</i> (Venue: B6605, CityU, Chair: A. Leung) |
| 17 Nov | Prof. C.H. Woo, Hong Kong Polytechnic University
<i>The Ultimate Energy Solution - Build Our Own Sun!</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 24 Nov | Dr C.W. Sham, Hong Kong Polytechnic University
<i>Optimal Cell Flipping in Placement and Floorplanning</i> (Venue: B6605, CityU, Chair: K.W. Wong) |
| 1 Dec | Dr Thomas Wong, Hong Kong Polytechnic University
<i>Fast-Polarization-Hopping Transmit-Diversity to Mitigate Prolonged Deep Fades in Indoor Wireless Communications</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 8 Dec | Mr Chengqing Li, City University of Hong Kong
<i>Why and How Cryptanalysis Works</i> (Venue: B6605, CityU, Chair: R. Chen) |
| 15 Dec | Dr Yoshifumi Nishio, Tokushima University, Japan
<i>Synchronization Phenomena in Coupled Oscillatory Circuits</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 22 Dec | Prof. Jiu Ding, University of Southern Mississippi, USA
<i>Chaos from the Statistical Point of View</i> (Venue: B6605, CityU, Chair: R. Chen) |