



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, 12 Jan – 25 May 2007, 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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| 12 Jan | Prof. Jonathan Manton, Australian National University, Australia <i>Optimisation on manifolds</i> (Venue: G6302, CityU, Chair: Sammy Chan) |
| 19 Jan | Dr. Chun Tung Chou, University of New South Wales, Australia <i>From wireless sensor networks to sensing data market</i> (Venue: CD634 PolyU, Chair: M. Tse) |
| 26 Jan | Prof. Y.M. Shi, Shandong University, China <i>Chaos induced by coupled-expanding maps</i> (Venue: CD634, PolyU, Chair: M. Small) |
| 2 Feb | Mr. Nelson Chan, UC Los Angeles, USA <i>Microwave photonic applications of semiconductor laser nonlinear dynamics</i> (Venue: B6605, CityU, Chair: W. Tang) |
| 9 Feb | Mr. Ben Cheng, Hong Kong Polytechnic University <i>Bio-inspired sensor networks</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 23 Feb | Dr. Robin S Bradbeer and Dr. Katherine K Y Lam, City University of Hong Kong <i>Robotics and instrumentation in monitoring marine environment at Hoi Ha Wan Marine Park</i> (Venue: B6605, CityU, Chair: K.T. Ko) |
| 2 Mar | Prof. Ashoka Bhat, University of Victoria, Canada <i>High-frequency transformer isolated fuel-cell to utility interface power converters</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 9 Mar | Prof. Arthur Krener, UC Davis, USA <i>Model reduction of linear and nonlinear control systems</i> (Venue: B6605, CityU, Chair: R. Chen) |
| 16 Mar | Dr. Wenxu Wang, University of Science and Technology of China, China <i>Evolutionary games on networks</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 23 Mar | Prof. Felipe Cucker, City University of Hong Kong <i>Emergent behavior on flocks</i> (Venue: B6605, CityU, Chair: K.W. Chung) |
| 30 Mar | Prof. George Baciú, Hong Kong Polytechnic University <i>Index systems</i> (Venue: CD634, PolyU, Chair: M. Small) |
| 13 Apr | Prof. Maciej Ogorzalek, AGH University of Science and Technology, Poland <i>Fractal antenna technology</i> (Venue: B6605, CityU, Chair: K.W. Wong) |
| 20 Apr | Mr. Wilson Thong, City University of Hong Kong <i>Searching router topologies for engineered design</i> (Venue: B6605, CityU, Chair: W. Tang) |
| 24 Apr (Tue 11am) | Prof. Geza Kolumban, Budapest University of Technology and Economics, Hungary <i>Subspace detection theorem and its application to the development of optimum detection configuration</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 27 Apr | Dr. Cristian Carmeli, Hong Kong Polytechnic University <i>Assessing cooperative behavior in dynamical networks with applications to brain data</i> (Venue: B6605, CityU, Chair: A.Y.T. Leung) |
| 4 May | Prof. M. A. Aziz-Alaoui, University of Le Harve, France <i>Delay differential and partial differential equations in species dynamics</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 11 May | Prof. Frank Lewis, University of Texas at Arlington, USA <i>Adaptive dynamic programming for robust optimal control using nonlinear network learning structures</i> (Venue: B6605, CityU, Chair: T. Chow) |
| 18 May | Prof. Jinhua Lü, Chinese Academy of Science, China <i>Collective behaviors of animal groups</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 25 May | Prof. Nikhil R. Pal, Indian Statistical Institute, India <i>Fuzzy systems - Applications, issues and challenges: where do we stand?</i> (Venue: B6605, CityU, Chair: G. Feng) |