



City University of Hong Kong
Centre for Chaos Control and Synchronization

香港城市大學
混沌控制與同步學術研究中心



THE HONG KONG
POLYTECHNIC UNIVERSITY
DEPT. OF ELECTRONIC & INFORMATION ENGINEERING

香港理工大學
電子及資訊工程學系



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

Jointly presents

**SEMINAR SERIES ON
CHAOS AND SYSTEMS CONTROL**

Fridays, 30 January – 28 May 2004, 4:30 pm – 5:30 pm
Room **B6605**, City University of Hong Kong
Or Room **CD634**, Hong Kong Polytechnic University

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:

- 30 Jan J. Holland (USA): Secrets of Genetic Algorithms: The role of 'building blocks' in searching spaces with nonlinear performance or fitness functions** (Venue: B6605, CityU)
- 6 Feb G. R. Chen (CityU): Controlling bifurcations: Overview** (Venue: CD634, PolyU)
- 13 Feb T. Schimming (Switzerland): Statistical analysis of chaotic systems with Markov property - theory and applications** (Venue: B6605, CityU)
- 20 Feb T. Schimming (Switzerland): Efficient digital modulations using chaotic systems controlled by small perturbations - an overview** (Venue: CD634, PolyU)
- 27 Feb K. W. Chung (CityU): Automatic generation of symmetrical patterns from dynamics** (Venue: B6605, CityU)
- 5 Mar R. T. Xu (PolyU): Introduction to multi-input/multi-output wireless communication systems**
(Venue: CD634, PolyU)
- 12 Mar X. D. Luo (PolyU): The application of time series analysis to cardiac dynamics (ECG or pulse)**
(Venue: B6605, CityU)
- 19 Mar M. Small (PolyU): SARS! SimPlague!** (Venue: CD634, PolyU)
- 26 Mar G. Tam (PolyU): Wavelet approach to modelling power electronics** (Venue: B6605, CityU)
- 2 Apr J. Zhao (China): Passivity and stability of switched systems: A multiple storage function method**
(Venue: CD634, PolyU)
- 16 Apr T. Nakamura (Japan): Modelling using selection method and information criteria** (Venue: B6605, CityU)
- 23 Apr D. Dai (PolyU): Symbolic analysis of bifurcations in switching converter circuits** (Venue: CD634, PolyU)
- 30 Apr Y. X. Xia (PolyU): Performance of chaos-based communication systems in multi-path fading channels**
(Venue: B6605, CityU)
- 7 May S. J. Li (CityU): On digital degradation of chaos-based analog device implementation** (Venue: CD634, PolyU)
- 14 May B. Jansen (USA): Towards a mental prosthesis** (Venue: B6605, CityU)