



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, 17 January – 9 May 2003, 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:

- 17 Jan 2003 T. P. Chen (Fudan Univ, China): A general approach to the stability analysis of some dynamical systems (Venue: Room B6605, CityU)
- 21 Jan 2003 Tamer Basar (USA): Regulating traffic on high-speed communication networks: Resource management, pricing, and congestion control (Time: 2:00pm, Venue: Room G6302, CityU)
- 24 Jan 2003 Michael Small (PolyU): Optimal embedding (Venue: Room CD634, PolyU)
- 7 Feb 2003 Jie Chen (USA): Control performance limitation: Beyond poles and zeros (Time: 11:00am, Venue: Room G6302, CityU)
- 7 Feb 2003 Y. F. Zheng (Australia): On nonlinear system inversion for secure communication (Venue: Room B6605, CityU)
- 14 Feb 2003 J. Y. Chen (CityU): Phase synchronization of chaos and its applications (Venue: Room G6302, CityU)
- 21 Feb 2003 K. Y. Cheong (PolyU): Permutation approach to chaotic communication (Venue: Room CD634, PolyU)
- 28 Feb 2003 Y. J. Li (CityU and Zhejiang Univ, China): Ecological algorithms and its application in optimization (Venue: Room G6302, CityU)
- 7 Mar 2003 P. L. Shi (London, UK): The nature of the symmetry-breaking bifurcation (Venue: Room CD634, PolyU)
- 14 Mar 2003 Frank Lewis (USA): Nearly optimal control using nonlinear network structures and indications of chaos (Venue: Room B6605, CityU)
- 21 Mar 2002 L. Wang (CityU and Xiamen Univ, China): Channel coding theory and chaos-based coding (Venue: Room CD634, PolyU)
- 28 Mar 2003 X. Li (CityU and Nankai Univ, China): On complex dynamical networks (Venue: Room B6605, CityU)
- 17 Apr 2003 (Thursday) J. Y. Ke (CityU): Complex dynamic networks and human language (Venue: Room B6605, CityU)
- 25 Apr 2003 Tim Ko (CityU): Control systems in the Internet (Venue: Room B6605, CityU)
- 2 May 2003 Michael Tse (PolyU): Chaos in power electronics (Venue: Room B6605, CityU)
- 9 May 2003 Tommy Chow (CityU): Shape from shading methods using neural networks (Venue: Room CD634, PolyU)
- 16 May 2003 Jian Yao (HK Chinese U): Public key encryption schemes based on chaotic maps (Venue: Room B6605, CityU)

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