



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, 3 Feb – 18 May 2012, **4:30 pm – 5:30 pm**
Room **B6605**, 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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| 3 Feb | Mr Guanghui Wen, Peking University, Beijing
<i>Distributive Control of Multi-Agent Systems with Communication Constraints</i> (Venue: B6605, CityU, Chair: G. Chen) |
| 10 Feb | Miss Jiajing Wu, Hong Kong Polytechnic University
<i>Impact of Network Structure on Communication Network Performance</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 17 Feb | Dr Yaobin Mao, Nanjing University of Science and Technology, Nanjing
<i>CAPTCHA -- Designing and Breaking</i> (Venue: B6605, CityU, Chair: W. Tang) |
| 24 Feb | Dr Ben Cheng, Hong Kong Polytechnic University
<i>Network Structures for Data Aggregation in Wireless Sensor Networks</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 2 Mar | Dr Zhihai Rong, Donghua University, Shanghai
<i>Prisoner Dilemma and Beyond: An Introduction to Networked Game Theory</i>
(Venue: B6605, CityU, Chair: K.W. Wong) |
| 9 Mar | Prof. Tetsuro Endo, Meiji University, Japan
<i>Bifurcation of Quasi-Periodic Oscillations in Mutually-Coupled Hard Type Oscillators</i>
(Venue: CD634, PolyU, Chair: M. Tse) |
| 16 Mar | Mr Yue Zhao, Hong Kong Polytechnic University
<i>Efficient Decoding of LDPC Codes Using GPUs</i> (Venue: B6605, CityU, Chair: K.T. Ko) |
| 23 Mar
(3pm) | Prof. David Hill, University of Sydney, Australia
<i>Smart Grid as Distributed Learning Control</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 23 Mar | Prof. Cetin K. Koc, University of California at Santa Barbara, USA
<i>Claveo: A Secure & Effortless Authentication Architecture for Mobile Devices</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 30 Mar | Prof. Geza Kolumban, Pazmany Peter Catholic University, Hungary
<i>Technologies for designing of future telecommunications systems: Generalization of the ideas of software defined radio and virtual instrumentation to get software defined electronics</i> (Venue: B6605, CityU, Chair: K.W. Chung) |
| 6 Apr | EASTER HOLIDAY |
| 13 Apr | Dr Leanne Chan, City University of Hong Kong
<i>Evaluation of Efficiency and Safety of a High-Resolution Retinal Implant</i> (Venue: CD634, PolyU, Chair: F. Lau) |
| 20 Apr | Miss Yuhan Chen, Department of Physics, Hong Kong Baptist University
<i>Formation of Complex Neural Networks under Multiple Constraints</i> (Venue: B6605, CityU, Chair: T. Chow) |
| 27 Apr | Dr Ray C.C. Cheung, City University of Hong Kong
<i>High-Performance Bioinformatics Computing Using FPGAs</i> (Venue: CD634, PolyU, Chair: S.C. Tan) |
| 4 May | Dr Guofeng Zhang, Dept. of Applied Mathematics, Hong Kong Polytechnic University
<i>Response of Quantum Systems to Non-classical Input</i> (Venue: B6605, CityU, Chair: A. Leung) |
| 7 May
(Mon, 11am) | Prof. Changpin Li, Shanghai University, China
<i>Fractional Calculus and its Applications</i> (Venue: B6605, CityU, Chair: A. Joseph) |
| 11 May | Prof. Kung Yao, University of California at Los Angeles
<i>Public Safety Network Systems based on 4G LTE Cellular Technology</i> (Venue: CD634, PolyU, Chair: M. Tse) |
| 18 May | Dr Chai Wah Wu, IBM T. J. Watson Research Center, New York, USA
<i>Locally Connected Processor Arrays for Matrix Multiplication and Linear Transforms</i>
(Venue: B6605, CityU, Chair: J. Chen) |

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