



The 8th Asia-Pacific  
Complex Systems  
Conference

Surfers Paradise  
Marriott Resort  
Queensland  
Australia  
2-5 July 2007

**Oral abstract submission is closed.  
Poster abstract submission is  
available until 1 June 2007**

**The provisional program is now  
available at [www.complex07.org](http://www.complex07.org)**

(program is subject to change)

**Earlybird  
registration deadline  
31 May 2007**

[www.complex07.org](http://www.complex07.org)

e-News – Edition 3 – May 2007

**Complex'07: The 8th  
Asia-Pacific Complex  
Systems Conference**  
2-5 July 2007

Surfers Paradise Marriott  
Resort, Queensland,  
Australia

[www.complex07.org](http://www.complex07.org)

**Conference Managers**  
HI Event Management  
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## Welcome

Welcome to the third edition of the official newsletter for Complex'07, the 8th Asia-Pacific Complex Systems Conference.

Online registration has now commenced on the Conference website at [www.complex07.org](http://www.complex07.org).

The Conference features an exciting range of keynote speakers, along with Pre-Conference Workshops and Tutorials. Program and Pre-Conference Workshop details are located on the website at [www.complex07.org](http://www.complex07.org). Book early as places are limited.

**Professor Peter Lindsay**  
Conference Chair

## Pre-Conference Workshops/Tutorials

Book to attend a Pre-Conference Workshop or Tutorial via the Conference registration form. The Pre-Conference Workshops and Tutorials are available at an additional cost of \$A150 standard or \$A60 for fulltime students per session. Participation in these Workshops/Tutorials is for registered delegates only.

### Pre-Conference Workshops/Tutorials

Workshop 2	Introduction to Agent-based Modelling using NetLogo
Workshop 3	Which Ontology and Heuristics for Agent-based Modelling?
Workshop 4	Engineering Complex Software-Intensive Systems – Composition Trees and Behavior Trees
Workshop 5	Social Network Analysis (SNA) and the Study of Emergence in Complex Networks
Tutorial 1	Non-linear Dynamics: From Chaos to Fractals to Fractional Calculus

Tutorial 2	Introduction to Modelling and Simulation
Tutorial 4	How might Biological Learning relate to Machine Learning?

*Please note Workshop 1 and Tutorial 3 are no longer available*

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## Conference Dinner

The Conference Dinner promises to be an entertaining night with after-dinner speaker, Robyn Williams AM, who has presented *The Science Show* on ABC Radio National since it began in 1975. A superb communicator whose penetrating interpretations are enhanced by his lively wit, Robyn's unique mix of humour and fact is both stimulating and entertaining. Book now for the Conference Dinner to be held on the evening of Wednesday 4 July. Further information on Robyn Williams is available at [http://www.celebritiespeakers.com.au/brspeaker\\_bio.asp?Speaker\\_Index\\_Text=268](http://www.celebritiespeakers.com.au/brspeaker_bio.asp?Speaker_Index_Text=268).

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## Keynote Speakers

### Professor Michael F Barnsley

The colourful geometry of nature  
Mathematical Sciences Institute, The Australian National University, Canberra, Australia

### Dr Anthony J Bell

Towards a theory of learning across the levels of the reductionist hierarchy  
Redwood Center for Theoretical Neuroscience, University of California at Berkeley, USA

### Dr Kenneth R. Boff

The Rosetta-II Project: Measuring National Differences in Complex Cognition  
Air Force Research Laboratory

### Professor Dietrich Dörner

Emotions and coping with complexity  
Institute of Theoretical Psychology, Otto-Friedrich University, Bamberg, Germany

### Professor Celso Grebogi

Are fractal skeletons the explanation for the plankton paradox and narrowing of arteries due to cell trapping in a disturbed blood flow?  
Institute for Complex Systems, King's College, University of Aberdeen, Scotland, UK

### Professor Mark S Handcock

Statistical models for dynamic networks for infectious disease spread based on egocentrically sampled data  
Center for Statistics and the Social Sciences, University of Washington, USA

### Associate Professor Hawoong Jeong

Structure and dynamics of complex networks  
Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea

### Professor Sang Yup Lee

Systems-level metabolic engineering of bacteria using genome-scale in silico models  
Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Republic of Korea

### Professor Martina Morris

The importance of partnerships and networks for the spread of HIV  
Department of Sociology, University of Washington, USA

### Professor Akira Namatame

Synchronisation and emergent intelligence in networked agents  
Department of Computer Science, National Defense Academy, Yokosuka, Japan

**Dr Martin O'Hely**

Importance of sampling strategies for forwards and backwards processes in population genetics  
ARC Centre of Excellence for Mathematics and Statistics of Complex Systems (MASCOS), Department of Mathematics, The University of Queensland, Brisbane, Australia

**Associate Professor Aleks Owczarek**

Monte Carlo without Markov chains for model polymers  
ARC Centre of Excellence for Mathematics and Statistics of Complex Systems (MASCOS), Department of Mathematics and Statistics, The University of Melbourne, Australia

**Dr Michael Raupach**

Carbon-climate-human interactions as a complex system  
CSIRO Marine and Atmospheric Research, Canberra, Australia

**Professor Penelope Sanderson**

Controlling complex resources over different timeframes in process control  
Cognitive Engineering Research Group, The University of Queensland, Brisbane, Australia

**Dr Andrew Smith**

From words to meanings - Human knowledge as a complex system  
Leximancer Pty Ltd, The University of Queensland, Brisbane, Australia

**Professor Michael Ward**

Leader of panel session on topic: Complex systems challenges in health care  
Central Clinical Division, School of Medicine, The University of Queensland, Brisbane, Australia

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**Accommodation**

Book your accommodation at the Surfers Paradise Marriott Resort through the Conference Managers when you book your registration, to receive the significantly discounted rate of \$195 per room per night. This 5-star Resort combines Queensland's casual charm with superior international style to create a unique, unrivalled Gold Coast holiday experience. With its relaxed resort atmosphere and fabulous salt water swimming lagoon, the resort offers an exciting venue for Conference delegates and their families. The resort is just a short stroll from the famous beaches, shopping and nightlife of Surfers Paradise.

If required, accommodation bookings can be made at a later time by emailing [nicole@hievents.com.au](mailto:nicole@hievents.com.au); however, it is best to get in early to make your booking, as accommodation is subject to availability.

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**Registration discount for COSNet members**

Remember to become a member of COSNet, our Major Sponsor, before you register for Complex'07 to receive a substantial discount on your Conference registration. COSNet membership is free and easy to join.

Visit <http://complexsystems.net.au/content/joining> and follow the simple instructions.

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**Subscribe**

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We will maintain your privacy and your address will not be supplied to other agencies not connected with the Conference for distribution of promotional material.

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