



23–25 February 2009, Shanghai, China

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INVITED SPEAKERS

(tentative list, to be further extended)

Guido Caldarelli Italy
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CALL FOR PAPERS

HIGHLIGHTS

- Distinguished Keynote Speakers and Invited Speakers.
- Selected paper publications in respected journals.
- Respected and responsible Technical Program Committee for paper review.
- Five Workshops, invited industrial talks, and more.

The interdisciplinary studies on complex systems have gained extensive research interests. Significant impacts have been made by such studies on a wide range of different areas including physics, biology, economics, social sciences, etc., and penetrating into various engineering applications. In the long-term future, the way we understand and cope with the world may all be revolutionized by such studies. This conference aims to provide a unique and convenient platform for people working on theory and applications of complex systems to exchange their ideas and their latest research results. We look forward to your participation in **COMPLEX'2009** to make this conference a success.

TOPICS OF INTERESTS

Papers presenting original work in, but not limited to, the following areas are invited:

- (1) **Structure and Dynamics of Complex Networks:** Topology and functionality of binary and weighted networks, network evolution, formation and restructuring, network traffic dynamics and network routing, network robustness and vulnerability, clustering and community structure.
- (2) **Complex Biological Systems:** Cells, gene and molecule systems, neuronal networks, epidemiology in complex systems, ecology systems, modeling evolution.
- (3) **Complex Economic Systems:** Financial systems, financial market modeling, wealth and income distribution, growth and structure of firms, supply and production networks.
- (4) **Complex Social Systems:** Social networks, dynamical models for human behaviors, innovation and opinion dynamics, terrorism and underground activities, languages and cultures in a complex world
- (5) **Complex Engineering Systems:** Internet and WWW as complex systems, current and future telecommunication systems, transportation systems, energy generation and distribution systems, complex system monitoring and measurements.
- (6) **Complex Systems Methods:** Optimization of complex systems, behavior and modeling of complex adaptive systems, system synchronization, multi-agent methods and new mathematical tools, information mining, statistical analysis of data from complex systems.

SUBMISSION INSTRUCTIONS

Paper submission will be handled electronically. Authors should prepare an Adobe Acrobat PDF version of their full paper. Papers should not exceed 12 pages in LNICST format. Please visit the conference website at <http://www.complex-sys.org> for detailed submission requirements and procedures.

PUBLICATIONS

Conference proceedings will be published by Springer in the series of ICST Lecture Notes (LNICST). The LNICST series is available in all the leading academic and scientific indexes and on SpringerLink as well. Please visit the conference website at <http://www.complex-sys.org> for more information.

SELECTED papers with ORIGINAL UNPUBLISHED results will be published in **European Physical Journal B (EPJ - B)**, **Advances in Complex Systems (ACS)** or **Journal of Systems Science and Complexity (JSSC)**.

KEYNOTE SPEAKERS

Dr. Albert-László Barabási, Northeastern University, USA.
Dr. Lei Guo, Chinese Academy of Sciences, PRC.
Dr. Deyi Li, National Natural Science Foundation of China, PRC
Dr. Alessandro Vespignani, Indiana University, USA.

IMPORTANT DATES

Paper submission : 15 October, 2008
Notification of acceptance : 10 November, 2008
Camera-ready version due : 10 December, 2008