

# The 2009 Infoscience, Infoengineering and Infotechnology Forum (Infosci 2009)

Leipzig, Germany, 23-25 March 2009  
<http://siwn.org.uk/2009leipzig/infoscience09.htm>

Infoscience, Infoengineering and Infotechnology are one of the most important scientific and technological advances of the 21st century. The Infosci 2009 Forum will be a unique and world first opportunity to exchange in-depth thoughts upon and to shape the future towards the foundations and fundamental problems of information processing, computation, communications, knowledge, semantics, problem solving, etc.

## Important Dates

26 January 2009 Submission of manuscripts  
31 January 2009 Notification of acceptance  
15 February 2009 Camera-Ready Version (CRV) due

## Submission & Publication

Submissions must be original contributions that neither have been published nor have been under review for publication elsewhere. All submissions must be in English and no more than 7 pages in the format specified in the Instructions for Authors, which are available on <http://siwn.org.uk/press/ita.htm>.

To submit a paper, a file in pdf format containing the manuscript of submission must be uploaded to the 2009 Infoscience Forum submission website

<http://www.easychair.org/conferences/?conf=infosci09>

Decision on acceptance of a manuscript will be according to the relevance, technical merits and especially the novelty of the manuscript.

Accepted papers will be included in the CD-ROM Proceedings of SIWN 2009, which will be available for participants at the Conferences to promote the widest exchange and dissemination at the Conferences.

All accepted papers of the conference are invited to publish their revised versions in the international journal <<Communications of SIWN>> (CoSIWN, <http://siwn.org.uk/coswn/>) (ISSN 1757-4439) after the conference. Details can be seen on the SIWN 2009 website.

## Topics of Interest

Topics of particular interest include (but not limited to) the followings.

### (1) Infoscience

#### Information Processing

- action-perception loops
- adaptation and machine learning
- adaptive behavior and evolution

- artificial life, cellular automata, swarm intelligence, emergence
- bioelectronics, biomimetics
- bio-inspired robotics
- bio-morphic engineering
- brain informatics
- cognitive science
- collective robotics, robotic swarms
- complex adaptive networks/systems
- complex systems modeling and simulation
- complexity science
- embodied cognition, brain-body-environment interaction
- multi-agent systems, swarm intelligence
- nanoscience, nanotechnology
- neuroscience, brain science
- quantum information science
- self-assembly, self-organization and replication
- sensorimotor coordination
- social behavior, social interaction

#### Novel Computing

- amorphous computing
- autonomic computing
- bio-inspired computing
- cloud computing, Grid computing, global computing, utility computing
- cognitive computing,
- granular computing, rough sets
- molecular/cellular computer, DNA computing
- nanocomputing
- natural computing, evolutionary computation
- service-oriented architectures, service-oriented systems engineering
- unconventional computer architectures, parallel processing

### (2) Infoengineering

#### Computers, Communications and Networks

- ambient intelligence, sentient computing
- autonomic communications, future communications
- communication engineering
- complex distributed systems
- computer engineering
- computer systems engineering
- future internet, internet of things
- information engineering
- MEMS, NEMS, context-aware embedded systems
- network and internet engineering
- networked embedded systems
- pervasive and trustworthy networks
- pervasive computing, ubiquitous computing
- wireless access networks
- 4G mobile communications

## Software Engineering

- requirements engineering
- software design and methodology
- software evolution

(3) Informatics

## Information Storage and Management

- data access and integration
- data mining and knowledge discovery
- distributed database / repositories
- information privacy, trust
- information retrieval
- information security, encryption
- information systems
- knowledge engineering
- ontology
- semantic webs, web services

## Applied Informatics

- bioinformatics, systems biology, synthetic biology
- computer applications
- e-commerce
- e-government
- e-science technologies

- health informatics
- industrial informatics

## **Chairs**

Professor Rainer Unland  
University of Duisburg-Essen, Germany

Professor Huaglory Tianfield  
Glasgow Caledonian University, UK

## **Publicity Chairs**

Dr Yun Fu  
BBN Technologies, USA

Dr Xuelong Li  
Birkbeck, University of London, UK

Dr Jialie Shen  
Singapore Management University, Singapore