

## 4th International Workshop on Natural Computing

Himeji, Japan, September 23-25, 2009

[www.iwnc2009.org](http://www.iwnc2009.org)

### Scope and Topics:

Natural systems have become the inspiration of novel algorithms that have the potential for increased reliability, power efficiency, and computational capacity. The goal of IWNC 2009 is to offer computer scientists, biologists, mathematicians, electronic engineers, and physicists a platform to critically assess present findings in the field, and to outline future developments in nature-inspired computing.

- DNA computation
- Physics of Computation
- Cellular Automata
- Neural Networks
- Swarm Systems
- Computation in Living Cells
- P-systems
- Chaotic Systems
- Evolutionary Computing
- Artificial Chemistry
- Nanocomputing
- Noise-Driven Computation

**Special Session on Unconventional Models of Communication Organizers:** *K. Leibnitz and N. Wakamiya (Osaka University, Japan)*

Authors are encouraged to submit papers on models, protocols, and architectures for the management and control of information and communication networks inspired by concepts from biology, physics, nanotechnology, or social sciences.

### Venue:

Himeji International Exchange Center, Himeji, Japan

### Submissions:

Authors are invited to submit papers presenting their original and unpublished research. Papers should not exceed 8 pages and should be formatted according to the LNCS article style. Submissions can be sent through the link on the web page.

### Proceedings:

A volume of the preliminary proceedings will be available by the time of the conference. All papers in this proceedings that have been presented at the workshop will be published in a post-proceedings by Springer-Japan and be sent to the participants. Extended versions of selected papers will be invited for a Special Issue of the International Journal of Unconventional Computing.

### Important Dates:

Submission deadline	June 30, 2009
Notification of acceptance	July 15, 2009
Camera-ready version	August 15, 2009
Conference	September 23-25, 2009

### Invited Speakers: (confirmed)

Anirban Bandyopadhyay (National Institute of Materials Science, Japan)  
 Laszlo B. Kish (Texas A&M University, USA)  
 Bruce J. MacLennan (University of Tennessee, USA)  
 Milan N. Stojanovic (Columbia University, USA)  
*List will be extended.*

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