

## Synasc 2005-Workshops-NCA 2005

NCA 2005 Natural Computing and Applications Workshop in conjunction with SYNASC-2005  
7th International Symposium on  
Symbolic and Numeric Algorithms for Scientific Computing  
Timisoara, Romania  
September 25 - 29, 2005

### Workshop description

Natural Computation is a field of research that is concerned with use of nature-inspired paradigms for solving computational problems. The world of natural computation is diverse and fascinating. It tries to combine the computing carried in computer science with the computing observed in nature.

NCA'05 invites authors to submit their original and unpublished work that demonstrate current research in all areas of natural computation and their applications in science, technology, business and commerce. Submitted papers have to be original, containing new and interesting results.

### Topics:

Suggested topics for papers include, but are not limited to, the following:

- evolutionary computing,
- neural computing,
- molecular computing (DNA computing, membrane computing)
- quantum computing,
- information processing in cells and tissues,
- immunocomputing,
- swarm intelligence,
- computation with words,
- granular computation,
- artificial life,
- hybrid systems and other intelligent systems inspired by nature,
- natural computing applications IN knowledge discovery, business, science, finance, operations research, and more

### Submission of papers:

Papers of up to 8 pages must be submitted electronically in Latex format (IEEE paper style) to [dzaharie@info.uvt.ro](mailto:dzaharie@info.uvt.ro). All papers will be peer reviewed by at least two or more independent referees of the program committee of NCA'05 and accepted on the basis of their scientific merit and relevance to the Workshop topics. Papers accepted for presentation will be published in the SYNASC'05 post-proceedings (IEEE Computer Press).

### Workshop deadlines:

Submission of papers (extended deadline): July 1, 2005  
Notification of acceptance: August 1, 2005  
Final paper: September 1, 2005  
Registration: September 1, 2005

### Workshop chairs:

Ajith Abraham - School of Computer Science and Engineering, Chung-Ang University, Republic of Korea,  
[ajith.abraham@ieee.org](mailto:ajith.abraham@ieee.org)  
Dan Dumitrescu - Department of Computer Science, Babes Bolyai University, Cluj-Napoca, Romania,  
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### Program Committee:

Soumya Banerjee - Institute of Management Studies, India  
Yuhui Chen - Jinan University, China  
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Local organizer:

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