



ICANNGA'07

International Conference on Adaptive and Natural Computing Algorithms
Warsaw, Poland; 11-14 April 2007

The ICANNGA series of international conferences, which started in 1993, has a long history of promoting the principles and understanding of computational intelligence paradigms within the scientific community. The 2007 Conference, eighth in the ICANNGA series, takes place at the Warsaw University of Technology in Poland.

TOPICS

Contributions are sought in the following topic areas (the list is not exhaustive):

- **Neural Networks:** architectures, algorithms, approximation, complexity, associative memory, biological foundations, computational neuroscience, neurodynamics, neurocognition.
- **Learning:** kernel methods, support vector machines, supervised and unsupervised learning, reinforcement learning, Bayesian learning.
- **Evolutionary Computation:** genetic algorithms, genetic programming, multi-objective optimization, biological computation, classifier systems, artificial life, artificial immune systems, evolution strategies, ant colony optimization, particle swarm optimization, swarm intelligence, evolvable hardware.
- **Soft Computing:** fuzzy systems, rough systems, uncertain systems, hybrid systems, neurofuzzy controllers, embedded computing for intelligent systems, random search methods, probabilistic computing, chaotic computing, symbolic computing.
- **Bioinformatics and Computational Biology:** molecular computing, DNA computing, bioinformatics databases, computational genomics, computational proteomics, clustering, mapping gene expression and micro arrays, gene identification and annotation, molecular evolution, molecular sequence analysis, protein structure, protein classification.
- **Quantum Computing:** quantum control, supercomputing, autonomic computing.
- **Applications:** medicine, environment, quantitative socio-dynamics, pattern recognition, classification, signal processing, control, simulation, robotics, diagnostics, transport, defence, security, power systems, finance and business, data mining and intelligent databases, speech recognition and natural language processing, image processing and computer vision, real-time computational intelligence and games, grid computing, biometrics.

icannga07@ee.pw.edu.pl

<http://icannga07.ee.pw.edu.pl>

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PROCEEDINGS

The conference proceedings are published by Springer-Verlag in the series Lecture Notes in Computer Science (LNCS).

IMPORTANT DATES

Paper Submission:
10 September 2006
Notification of Acceptance:
7 December 2006

ORGANISERS

Warsaw University of Technology,
Faculty of Electrical Engineering
Institute of Control and Industrial
Electronics, Control Division,
Conference Chair: Bartłomiej
Beliczyński

CONFERENCE SECRETARIAT

Warsaw University of Technology,
Institute of Control and Industrial
Electronics
ul. Koszykowa 75, 00-662 Warszawa,
POLAND
Phone: +48 22 6607618
Fax: +48 22 6256278