

IWANN 2007

9th International Work-Conference on Artificial Neural Networks (IWANN'2007)
(Computational and Ambient Intelligence)
Palacio de Miramar, San Sebastián, Spain; June 20-22, 2007



ORGANIZING COMMITTEE

<i>Conference Chairs:</i>	Joan Cabestany Alberto Prieto Francisco Sandoval
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SCOPE

The IWANN2007 will take place in San Sebastian (Spain) within the context of the XXVI Summer Courses of the Basque Country University (UPV/EHU). This biennial meeting focuses on the foundations, theory, models and applications of systems inspired on nature (neural networks, fuzzy logic and evolutive systems). It was previously held in Granada (1991 and 2001), Sitges, Barcelona (1993), Torremolinos, Málaga (1995), Lanzarote, Canary Islands (1997), Alicante (1999), Menorca (2003), and Vilanova i la Geltrú (2005) with a growing number of participants from more than 20 countries, and with high quality papers published by Springer-Verlag (LNCS 540, 686, 930, 1240, 1606-1607, 2084-2085 and 3512).

The proceedings of this edition will include all communications presented to the conference (tutorials, oral and posters). As in previous edition of IWANN, we are arranging the proceedings be published by Springer-Verlag on Lecture Notes on Computer Science (LNCS) series, and will be available on-site. It is also foreseen that, in the same manner that in IWANN 2005, extended versions of selected papers will be published in a special issue of the Neurocomputing journal (Elsevier).

TOPICS

The topics of interest include, but are not limited to:

- 1. Mathematical and theoretical methods in computational intelligence.** Complex and social systems. Evolutionary and genetic algorithms. Fuzzy logic. Mathematics for neural networks. RBF structures. Self-organizing networks and methods. Support vector machines.
- 2. Neurocomputational formulations.** Single-neuron modelling. Perceptual modelling. System-level neural modelling. Spiking neurons. Models of biological learning.
- 3. Learning and adaptation.** Adaptive systems. Imitation learning. Reconfigurable systems. Supervised, non-supervised, reinforcement and statistical algorithms.
- 4. Emulation of cognitive functions.** Decision Making. Multi-agent systems. Sensor mesh. Natural language. Pattern recognition. Perceptual and motor functions (visual, auditory, tactile, virtual reality, etc.). Robotics. Planning motor control.
- 5. Bio-inspired systems and neuro-engineering.** Embedded intelligent systems. Evolvable computing. Evolving hardware. Microelectronics for neural, fuzzy and bioinspired systems. Neural prostheses. Retinomorph systems. Nanosystems. Nanocognitive systems.
- 6. Applications.** Adaptive interfaces. Ambient intelligence. Biomimetic applications. Data analysis and pre-processing. Data mining. Economy and financial engineering. Fuzzy systems for control. Internet. Neural networks for control. Power systems. Signal processing. Telecommunication applications. Time series and prediction.

PROGRAM COMMITTEE (tentative)

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Amaury Lendasse	Pedro Zufiria

IMPORTANT DATES

November 26, 2006	Submission of Special Session proposals.
December 10, 2006	Special Session acceptance.
February 4, 2007	Submission of papers by authors
March 11, 2007	Notification of provisional acceptance.
March 25, 2007	Submission of final papers.
March 25, 2007	Early registration (special rates).
June 20-22, 2007	IWANN Conference.

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<http://www.iwann-conference.org>

Computational intelligence Society
Home of Neural Networks, Fuzzy Systems and Evolutionary Computation



Spanish Chapter of IEEE CIS