

IWANN 2009

10th International Work-Conference on Artificial Neural Networks (IWANN'2009) (Biological Inspired Systems. Computational and Ambient Intelligence) Hospedería del Colegio Fonseca, Salamanca, Spain; June 10-12, 2009

ORGANIZING COMMITTEE

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This biennial meeting seeks to provide a discussion forum for scientists, engineers, educators and students about the latest ideas and realizations in the foundations, theory, models and applications of systems inspired on nature (neural networks, fuzzy logic and evolutionary systems) as well as in emerging areas related to the above items. As in previous editions of IWANN, it also aims to create a friendly environment that could lead to the establishment or strengthening of scientific collaborations and exchanges among

During the present edition, the following associated satellite Workshops will be organized:

- 3rd International Workshop on Practical Applications of Computational Biology & Bioinformatics (IWPACBB)
- 3rd International Workshop on User-Centric Technologies and Applications (MADRINET)
- 2nd International Symposium on Distributed Computing and Artificial Intelligence (DCAI)
- 1st International Workshop on Soft Computing Models in Industrial Applications (SoCo)
- 1st International Workshop of Ambient Assisted Living (IWAAL)

The proceedings will include all the presented communications to the conference. As in previous editions of IWANN, we are arranging the publication of the proceedings with Springer-Verlag on Lecture Notes on Computer Science (LNCS) series, and the books will be available on-site. It is also foreseen the publication of an extended version of selected papers in a special issue of the Neurocomputing journal (Elsevier).

IWANN is included in the ranking of the best conferences established by the Computer Science Conference Ranking based on the "Estimated Impact of Conference (EIC)", concretely in position 55 among 620 considered (in the Artificial Intelligence field). Also the IWANN papers are indexed by CiteSeer.IST, and by the organization Computing Research and Education Association (CORE).

PROGRAM COMMITTEE (tentative)

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TOPICS

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

- 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.
- Neurocomputational formulations. Single-neuron modelling. Perceptual modelling. System-level neural modelling. Spiking neurons. Models of biological learning.
- Learning and adaptation. Adaptive systems. Imitation learning. Reconfigurable systems. Supervised, non-supervised, reinforcement and statistical algorithms.
- 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.
- Bio-inspired systems and neuro-engineering. Embedded intelligent systems. Evolving hardware. Microelectronics for neural, fuzzy and Evolvable computing. bioinspired systems. Neural prostheses. Retinomorphic systems. Brain-computer interfaces (BCI) Nanosystems. Nanocognitive systems.
- Ambient intelligence. Unobtrusive hardware. Seamless mobile/fixed communication and computing infrastructure. Dynamic and massively distributed device networks. Human-centric computer interfaces. Dependable and secure systems and devices. Ambient assisting living (AAL).
- 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.

TIMELINE

November 25, 2008 December 1, 2008 January 23, 2009 February 27, 2009 March 16, 2009 March 16, 2009 June 10-12, 2009

Submission of Special Session proposals Special Session acceptance. Submission of papers by authors Notification of provisional acceptance. Submission of final papers. Early registration (special rates). IWANN Conference.

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Amaury Lendasse

Spanish Chapter of IEEE CIS

