

Congress venue
Son Caliu Hotel Spa-Oasis

Avenida Son Caliu 8
E-07181 Palmanova
Islas Baleares (Spain)
Phone: +34 971 682200 Fax: +34 971 683720)

Technical Secretariat

ESOC, S.L.
C/ Río Duero 30, Local 10
03690 San Vicente del Raspeig
Alicante (Spain)
Tel: +34-965-22-99-40
Fax: +34-965-92-23-46
Email: congresos@grupoesoc.es
<http://www.grupoesoc.es/>



Registration fees

The registration fee includes attending to the sessions, coffee breaks, lunches, social events, official dinner and the Proceedings of the Work-Conference.

"Accompanying person A" registration fee only includes lunches, social events and official dinner.

"Accompanying person B" registration fee only includes social events and official dinner.

"2nd paper and more" registration includes only conference proceedings.

Registration fees of at least one author for each accepted paper should be paid in full before submission to press (April 21, 2013).

Type	Before 30 April	After April 30
Standard	€ 500	€ 600
Session Organizer	€ 400	€ 500
Accompanying person A	€ 175	€ 175
Accompanying person B	€ 100	€ 100
2nd paper and more	€ 300	€ 350

IWINAC 2013 important deadlines

Full papers submission due: **February 15, 2013**

Acceptance notification and start of registration: April 1, 2013

End of reduction fee for early registration: April 30, 2013

Congress date: June 10-14, 2013

IWINAC 2013 official web:
<http://www.iwinac.org>

IWINAC 2013

Supported by:



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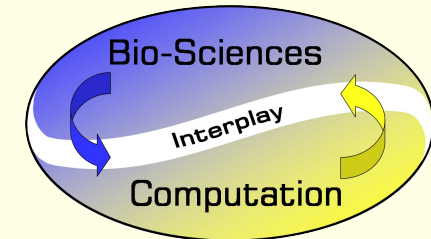


Programa Iberoamericano de ciencia y tecnología
para el desarrollo (CYTED)



IWINAC 2013 official web:
<http://www.iwinac.org>

IWINAC 2013



**5th INTERNATIONAL WORK-CONFERENCE
on the INTERPLAY between
NATURAL and ARTIFICIAL COMPUTATION**

Call for Papers



**Son Caliu Hotel Spa-Oasis,
Mallorca, Balearic Islands, (Spain)
June 10-14, 2013**

Organized by:

Universidad Nacional de Educación a Distancia
and Universidad Politécnica de Cartagena

in cooperation with

UNED- Balearic Islands Associated Center
and Universitat de les Illes Balears

Sponsored by:

Red Temática en Tecnologías de Computación
Natural/Artificial (RTNAC)

IWINAC 2013 official web:
<http://www.iwinac.org>

Final Call for Papers

The fifth "International Work-conference on the Interplay between Natural and Artificial Computation" (IWINAC-2013) will take place in Palma de Mallorca, Balearic islands.

Location

Palma Majorca is the capital of the island of Mallorca and is an ideal destination for your summer holidays. Palma is located on the southwest of the island, hugging the coast. This city is the cultural and economic center of Mallorca, attracting thousands of tourists every year. Although in recent times the city has been modernized, Palma Majorca has kept the charm and flavor of their own culture and tradition, to see it you just have to walk through the old town.

Scope

This interdisciplinary meeting, with focus on the interplay between Nature and Computation, expands the scope of neural computation at the physical level to cope with symbols and knowledge level models of cognitive and social processes. The global purpose is to offer a forum for discussion and exchange of ideas between scientists and engineers from fields such as Electronic Engineering, Artificial Intelligence, Knowledge Engineering, Physics, Mathematics, Computation, Artificial Vision, Situated Robotics, Neurophysiology, Cognitive Science, Linguistics and Philosophy, trying to contribute to the answer of two basic questions:

What can Physics, Mathematics, Engineering, Computation, Artificial Intelligence (AI) and Knowledge Engineering (KE) contribute to the understanding of Nervous System, Cognitive Processes and Social Behavior?

How can Engineering, Mathematics, Computation, AI and KE find inspiration in the behavior and internal functioning of physical, biological and social systems to conceive, develop and build-up new concepts, materials, mechanisms and algorithms of potential value in real world applications?

Topics

Computational Neuroscience & Biomedical Engineering

- Neural Modeling
- Perceptual Motor & Associative Mechanisms
- Multisensorial Coding
- Neurosimulators
- Cognitive Processes Modeling
- Perception, Memory, Decision Making and Learning
- Brain Interfacing
- Brain Imaging
- Consciousness

Bioinspired Computation & Engineering

- Evolvable Hardware
- Bionic Prostheses & Sensory Supplencies
- Evolutionary Computation
- Probabilistic methods
- Self-organizing & Collective Emerging Computation
- Symbolic-Connectionist Hybrid Approaches
- Bioinspired AI & KE
- Artificial Vision & Robotics
- Health Technologies
- Other Bioinspired Applications

Please, find extended descriptions of the topics in the webpage:
<http://www.iwinac.org>

Paper Submission

The Program Committee request original papers on the mentioned topics. All accepted papers will be published in the proceedings by Springer-Verlag in Lecture Notes on Computer Science series. Please check terms and conditions for publication at <http://www.iwinac.org>

Special Issues of selected Journals (expected)

Best papers will be selected by the scientific committee to include an extended version in special issues of relevant Journals of the field:

- Natural Computing
- Neurocomputing
- Robotics & Autonomous Systems
- Expert Systems
- Journal of Real-Time Image Processing

Call for pre-organized sessions

The Program Committee is requesting proposals for pre-organized sessions in one of the topics or related to the global scope presented above. Also, new sessions in the interdisciplinary spirit of the interplay between natural and artificial computation are welcome. Prospective organizers should contact organization staff at info@iwinac.org as soon as possible. Information about current pre-organized sessions and further details for prospective organizers can be found at web: <http://www.iwinac.org>. The organizers of effective pre-organized sessions will benefit of a discount on registration fees.

Invited Speakers

- Rodolfo Llinás, New York Univ (USA)
- Dario Floreano, EPFL (Switzerland)
- Pedro Gómez-Vilda, Univ. Politécnica de Madrid (Spain)

General Chairman

José Manuel Ferrández Vicente UPCT (Spain)

Organizing Committee

José Ramón Álvarez Sánchez, UNED (Spain)
Félix de la Paz López, UNED (Spain)
Javier Toledo Moreo, UPCT (Spain)
Organization e-mail: info@iwinac.org

Local Organizing Committee

Miguel Ángel Vázquez Segura, UNED (Spain)
Francisco J. Perales López, UIB (Spain).

Scientific Committee

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Garrigos Guerrero, Francisco J. (Spain)
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Sánchez Vila, Eduardo (Spain)
Sancho-Gómez, José Luis (Spain)
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Sato, Shunsuke (Japan)
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Yang, Xin-She (U.K.)
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