

ICANN 2005
International Conference on Artificial Neural Networks
September 11-15, 2005
Warsaw, Poland
<http://www.ibspan.waw.pl/ICANN-2005/>

Call for Papers
ICANN 2005 special workshop on Neuroinformatics

Scope & Topics:

Neuroinformatics is a new research field devoted to the development of neuroscience data and knowledge bases together with computational models and analytical tools for the sharing, integration and analysis of experimental data and the advancement of theories of nervous system function. The growing NI community organizes itself on the occasion of the conferences devoted to its many basic research areas to discuss different point of views on experimental data, ontology, meta data, analytical tools and computational models of the nervous system. The primary data would include experiments and experimental conditions concerning the genomic, molecular, structural, cellular, networks, systems and behavioral level, in all species and preparations in both normal and disordered states.

Due to activity of many national activities and special OECD program NI spreads gradually around the world. This workshop brings together some of the European and Japanese projects in this area, as well as interested research workers from other centers.

The session is being organized in Toruń, September 15th after ICAAN Conference in parallel to other workshops. Topics of interest include new analytical methods decomposing electrical field potentials recorded in the brain and internet tools supporting international cooperation in this area. The contributors who have already volunteered to the program include:

Dr Daniel Wojcik (Nencki Institute, Warsaw)
Decomposition of evoked potentials in the brain

Dr Stéphane Gaëtan Roux (Ecole Normale superieure de Lyon)
Wavelet analysis of frequency composition dynamics
of stimulus-evoked potential with respect to respiratory cycle.

Prof Andrzej Nowak (Warsaw School of Social Psychology and Florida Atlantic University)
Feedback circuits in neural models

Dr Maciej Kaminski (Warsaw University)
Multichannel EEG analysis

Dr Piotr Durka (Warsaw University)
A methodological unification of electroencephalography

Prof. A. Cichocki (Riken BSI, Tokyo)

New tools and perspectives for human brain computer interface based on EEG and ECoG.

Prof Shiro Usui (Riken BSI, Tokyo)

Modeling approach and neuroinformatics in vision science

Prof. K. Blinowska (Warsaw University)

Neuroinformatics in the net.

The list is not closed and interested contributors are welcome. You may also choose to send a paper without oral presentation during the workshop.

Submission of Papers:

Papers for the workshop will be published in the Springer Lecture Notes in Computational Intelligence, focused on the workshop theme. To make the book more attractive each volume should have a clearly defined topic and may contain additional, invited papers as well as papers of tutorial character.

Important dates:

30 April, 2005: Deadline for paper submission (full papers).

30 May, 2005: Notification of acceptance.

15 June, 2005: Deadline for Camera Ready Papers.

Workshop organizers and chair:

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