



1st International Symposium on Brain Vision and Artificial Intelligence

19-21 October 2005, Naples, Italy

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Aim of the Symposium

BV&AI 2005 is organized by the research group Neural, Visual and Cognitive Models of Natural and Artificial Systems of the Institute of Cybernetics "E. Caianiello" of the Italian National Research Council, Pozzuoli, Naples (ICIB-CNR), with the support of the Italian Institute for Philosophical Studies (IISF) and the help of the MQC2 association. BV&AI 2005 is a multidisciplinary symposium aimed to gather scientists involved in the study of Brain, Vision and Intelligence, from both the Natural and the Artificial point of view. The underlying idea is that to advance in each of the above research topics, integration with and attention to the others is necessary.

Scientific Program

The scientific program will include, besides six invited talks, contributed papers that will be presented in plenary oral or poster sessions. BV&AI 2005 main research areas are: Brain Basics, Natural Vision, Artificial Vision, and Artificial Intelligence. Original and unpublished papers are welcome, concerning, but not limited to, theory and applications on:

Brain Basics

Neuroanatomy and Physiology
Development, Plasticity and Learning
Synaptic, Neuronic and Neural Network Modelling

Natural Vision

Visual Neurosciences: Mechanisms and Model Systems
Visual Perception
Visual Cognition

Artificial Vision

Shape Perception
Shape Analysis and Recognition
Shape Understanding

Artificial Intelligence

Hybrid Intelligent Systems
Agents
Cognitive Models

Prospective contributors are encouraged to submit papers and to attend BV&AI 2005. Each paper will be reviewed by at least two reviewers. Accepted papers will be included in the proceedings volume, published by Springer-Verlag in the series Lecture Notes in Computer Science. Extended versions of selected contributions will be published in two special issues (*International Journal of Pattern Recognition and Artificial Intelligence* for paper dealing with "artificial" aspects, and *BioSystems* for papers dealing with "natural" aspects, respectively).

Invited Speakers

Igor Aleksander (UK)	Dana Ballard (USA)	Cristiano Castelfranchi (Italy)
Peter Erdi (USA)	Kevan Martin (Switzerland)	Enrica Strettoi (Italy)

Important Dates

Paper Submission	15 March 2005
Acceptance Notification	30 May 2005
Camera-ready Papers	30 June 2005

Paper Submission

Full papers (complete with illustrations and abstracts, at most ten A4 pages long and prepared according to the layout of Springer-Verlag) should be submitted electronically. To this purpose, the Corresponding Author of each submitted paper should send by March 15, 2005 her/his paper, in either pdf or ps format (preferably, pdf), as an attached file to the Scientific Secretariat (ss@bvai.cib.na.cnr.it). The electronic file should be named with the surname of the Corresponding Author, followed by the appropriate extension. The text of the accompanying email message should include: contact information for the corresponding author; names and addresses of all authors (including email and fax); an abstract of up to 200 words; 3-5 keywords; at least 1 and at most 3 topics (either selected among the main BV&AI 2005 topics, or classified as "Other"); and the indication whether the authors would be willing to submit an extended version of their paper, shortly after BV&AI 2005, for publication in one of the two planned special issues.

Travel Stipends

EBSA (European Biophysical Societies' Association) will offer two travel stipends, 400 euros each, to two PhD or graduate students from outside Italy, to encourage participation of young researchers to BV&AI 2005. Students willing to apply for such a stipend, should explicitly point out their student status in the email message accompanying their BV&AI 2005 submissions. BV&AI 2005 organisers will select the two most deserving students and the winners will receive the travel stipends cash at the symposium.

WWW Page

Updated information is maintained at <http://biocib.cib.na.cnr.it/BVAI2005/>

Contact

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