

COGNITIVE SCIENCE SUMMERSCHOOL

Volterra, Italy, 15-19 September 2008

SCOPE

In the last decade, research on cognitive systems has received increased attention. Inspired by biological systems and their ability to manage complex tasks in an ever-changing environment, researchers have set out to model biological processes. To advance the science of cognitive systems a multi-disciplinary investigation of requirements, design options and trade-offs for human-like, autonomous, integrated, physical (eg. Robot) systems, including requirements for architectures, for forms of representation, for perceptual mechanisms, for learning, planning and reasoning for action and communication are investigated. Information is gathered from different modalities such as vision, audio and speech. A very important aspect is how biological systems can filter out vital information from this vast amount of data through fusion and transfer of knowledge between modalities. To model these processes, researchers have developed architectures, representations, algorithms and sensors to acquire and process data coming from the various sensory modalities.

REGISTRATION

The workshop will be open to about 30 motivated and inspired students and researchers. Industrial professionals are more than welcome.

The summer workshop fee will be € 600 per participant for early bird registration (before July 1st). For later registrations, the fee will be € 625 up to the final registration deadline of August 1. This fee includes 4 overnight stays (arriving September 15th and leaving September 19th), full board accommodation (breakfast, lunch, dinner and breaks), welcome reception, all courses and handling material and an excursion to the historic village of Volterra.

Please make use of the registration form and fax it to complete the registration process. (<http://www.diracproject.org/workshop-2008/registration>)

ADMINISTRATIVE CONTACT

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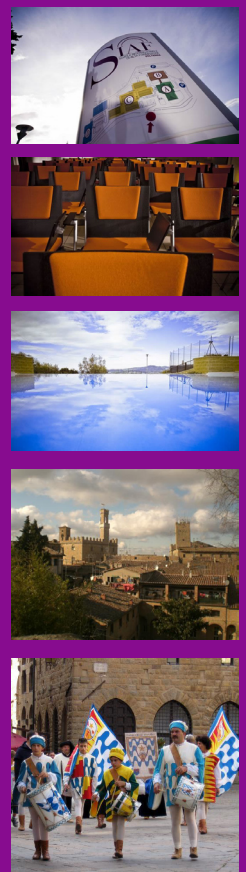


Organised by the following European projects:

DIRAC - Detection and Identification of Rare Audio-visual Cues
<http://www.diracproject.org>

POP - Perception On Purpose
<http://perception.inrialpes.fr/POP/>

COBOL - COmmunication with Emotional BOdy Language
<http://www.cobol-project.eu>



VENUE

Idyllically situated in the Tuscan countryside offering a panoramic view of the sea, just a short distance from the historical hilltop town of Volterra, SIAF provides a congenial environment for intensive study courses, events, seminars, workshops and conferences.

The learning village was ideated and founded by the Scuola Superiore Sant'Anna in Pisa in collaboration with the Cassa di Risparmio di Volterra and the Foundation of the same bank and the support of the Region of Tuscany.



Volterra, an historical hilltop town with about 10,000 inhabitants, founded by the Etruscans in the heart of Tuscany three thousand years ago, rises 550 metres above sea level and affords a spectacular panoramic view of the Cecina valley and the Era valley.

A haven of Etruscan, Roman, Medieval and Renaissance art and architecture, Volterra is famous throughout the world for its age-old tradition of alabaster carving.

Volterra's charm not only lies in its historical patrimony but also in the undefiled surrounding countryside. Only an hour from Pisa, Florence and Siena with an ideal climate and timeless atmosphere.



www.siafvolterra.eu

PROGRAMME

Monday 15 September

18.00 Dinner at Campus
19.30 Welcome Reception

Tuesday 16 September

08.00 – 9.00 Breakfast
09.00 – 12.00
Prof. Radu Horaud, INRIA, France
"3D Localization of Audiovisual Events with Binaural Hearing and Binocular Vision"
12.00 – 13.30 Lunch
13.30 – 16.30
Prof. David Burr, Un. of Firenze, CNR, Italy
"Cross modal integration (and development)"
16.30 – 18.00 Leisure
18.00 – 19.30 Group discussion
19.30 Dinner at Campus

Wednesday 17 September

08.00 – 9.00 Breakfast
09.00 – 12.00
Dr. Kostas Karpouzis, ICCS-NTUA, Greece
"Multimodal emotion recognition"
12.00 – 13.30 Lunch
14.00 – 15.30 Group discussion
16.00 – 18.30 Excursion to Volterra
19.00 Dinner in Volterra

Thursday 18 September

08.00 – 9.00 Breakfast
09.00 – 12.00
Prof. Moshe Bar, Harvard Medical School, USA
"Context and Object Recognition: Predictions in the Visual Brain"
12.00 – 13.30 Lunch
13.30 – 16.30
Prof. Beatrice de Gelder, Tilburg University, NL
"Multimodal body perception"
16.30 – 18.00 Leisure
18.00 – 19.30 Group discussion
19.30 Dinner with wine and typical products at Campus

Friday 19 September

08.00 – 9.00 Breakfast
09.00 – 12.00
Prof. Misha Pavel, Oregon H&S University, USA
"Analysis and modeling of complex behaviors of biological systems"
12.00 – 12.30 Discussion
12.30 – 14.00 Lunch

End of programme