



Workshop on Pattern Recognition and Artificial Intelligence for Human Behaviour Analysis (PRAI*HBA)

12 December 2009 – Reggio Emilia (Italy)

Satellite workshop of the AI*IA 2009:
International Conference of the Italian Association for Artificial Intelligence

CALL FOR PAPERS - Deadline October 4, 2009

LOCATION AND DATE

The Workshop on Pattern Recognition and Artificial Intelligence for Human Behaviour Analysis (PRAI*HBA) will take place in Reggio Emilia (Italy) on December 12, 2009, following the AI*IA 2009: International Conference (9-11 December 2009)

The conference and all the workshops will be hosted in the new building of the Department of Social, Cognitive and Quantitative Sciences and of the Faculty of Communication and Economics, located in the centre of Reggio Emilia

Address: via Allegri 9, I 42100 Reggio Emilia

WORKSHOP WEBSITE

Updated information can be found on the workshop section of the conference website, <http://imagelab.ing.unimore.it/prai4hba>

AIMS & SCOPE

Pattern Recognition (PR) and Artificial Intelligence (AI) scientific communities have tried to join their efforts and share knowledge in order to obtain more effective solutions for many different research areas. However, although the techniques and approaches are somewhat similar, the two communities often tackle problems from rather different perspectives.

Among these research areas, Human Behaviour Analysis (HBA) has recently become a very popular topic in computer science, because of its relevance in many surveillance applications. For instance, with the increasing use of cameras for video surveillance, it is getting almost unfeasible for security personnel to monitor scenes or to watch recorded videos looking for a particular event or visual item. Automatic interpretation of actions, gestures, and interactions

among people as well as automatic situation recognition and assessment would be extremely useful. Actually, methods for Human Behaviour Analysis have this specific aim and they are attracting more and more researchers and ICT industries. Nevertheless, the recognition and interpretation of human behaviour is still a challenging problem.

Given these premises, this workshop is meant to bring together researchers which address the problem of HBA from the PR and/or the AI perspective. Hopefully, this workshop will be the first of a long series of events in which these two communities actively work together to achieve effective and efficient solutions to complex tasks in HBA related fields.

TOPICS

Following the above considerations, the workshop topics include, but are not limited to, the following:

- Gesture and activity classification
- Multi-person interactions
- Multi-camera coordination and data fusion for HBA
- Event recognition and abnormal behaviour detection
- Crowd analysis for behaviour monitoring and alerting
- Machine learning methods for HBA
- Statistical pattern recognition methods for HBA
- Semantic video annotation
- Semantic scene representation and interpretation
- Situation classification and assessment
- Datasets and metrics for performance evaluation of HBA systems

Special issue of **The Wiley-Blackwell Journal Expert Systems: The Journal of Knowledge Engineering** connected to the workshop

PAPER SUBMISSION FORMAT

Papers not exceeding 8 pages, written in English and complying with the LNCS Springer-Verlag format (<http://www.springer.com/computer/lncs?SGWID=0-164-7-72376-0>) should be submitted electronically. Submissions are due in PDF format attached to an email sent to the following email address:
prai4hba@unimore.it

Accepted papers will be published on the official CD-Rom of the AI*IA2009 International conference with regular ISBN number.

In addition, best selected papers will be invited to submit an extended version of their paper (at least 30% of new material) for The Wiley-Blackwell Journal Expert Systems: The Journal of Knowledge Engineering (<http://www3.interscience.wiley.com/journal/117963144/home>) - impact factor 2008: 0.717.

IMPORTANT DATES

Paper submission: October 4, 2009

Camera-ready of accepted papers: November 11, 2009

Workshop day: December 12, 2009

WORKSHOP AND CONFERENCE FEE

Attendance to the conference and to the workshops IS limited to members of AI*IA. Participants are kindly requested to register before the conference, although on-site registration will also be offered.

Attendance to the workshops only (including participation in all the workshops, coffee-breaks and a CD-ROM with the Proceedings of all Workshops; it does not include membership to AI*IA):

Advance registration: 100 Euro
On-site registration: 200 Euro

Regular conference fee (including participation in the conference and all the workshops, a copy of the proceedings volume, the conference CD-Rom, coffee breaks for all 4 days; it does not include membership to AI*IA):

Early registration, before August 31, 2009: 350 Euros.

Late registration, since September 1, 2009: 400 Euros.

On-site registration: 500 Euro

Student fee (including proceedings volume and participation to the workshops, not including conference dinner): 130 Euro (NOT AVAILABLE ON-SITE)

CHAIRS

Luca Iocchi (<http://www.dis.uniroma.it/~iocchi>)
University "La Sapienza" - Rome

Andrea Prati (<http://www.dismi.unimo.it/Members/aprati>)
University of Modena and Reggio Emilia

Roberto Vezzani
(<http://imabelab.ing.unimore.it/imabelab/~vezzani>)
University of Modena and Reggio Emilia

PROGRAM COMMITTEE

Preliminary list of confirmed program committee members

- Francois Bremond, INRIA (FR)
- Simone Calderara, University of Modena and Reggio Emilia (I)
- Isaac Cohen, Honeywell (MN)
- Marco Cristani, University of Verona (I)
- Rita Cucchiara, University of Modena and Reggio Emilia (I)
- Luigi Di Stefano, University of Bologna (I)
- Tiziana D'Orazio, CNR (I)
- Michela Farenzena, University of Verona (I)
- Jordi Gonzalez, Universitat Autònoma de Barcelona (ES)
- Oswald Lanz, Fondazione Bruno Kessler (I)
- Christian Micheloni, University of Udine (I)
- Krystian Mikolajczyk, University of Surrey (UK)
- Massimo Piccardi, University of Technology, Sydney (AU)
- Carlo Regazzoni, University of Genoa (I)
- Paolo Remagnino, Kingston University (UK)