

ANNOUNCEMENT & CALL FOR PAPERS



Workshop on Cognitive and Eto-Robotics in iSpace CERiS'10

March 9, 2010 Budapest, **HUNGARY**

Organizers: *Budapest University of Technology and Economics
The Computer and Automation Research Institute,
Hungarian Academy of Sciences*

Supported by IEEE Hungary Section IAS/PELS joint Chapter

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Judit Veres
MTA SZTAKI
Phone: +36 1 279 6111
Fax: +36 1 279 6218
Email: veres.judit@sztaki.hu

Scope

The goal of this Workshop is giving a brief overview to new biologically inspired info-communication channels for human-machine interaction applied for operator adaptable machinery personalization, as a high level operator sensitive interface to robots. The machinery has the task to adapt the expected human requirements by identification of the actual human behavior, by machinery "personalization". The Workshop also gives a comprehensive overview to the differences between psychologically and ethologically inspired paradigms for the interaction between humans and intelligent systems. The Workshop expects papers on new cognitive, non-verbal info-communication channels as well. It can be the basis for human-machine interaction, new paradigm of robot teaching and supervising, which might open a new dimension of robotization or a new dimension of intelligent guiding. The Intelligent Space is a room or corridor, which has ubiquitous sensory intelligence including various sensors, such as cameras, microphones, haptic devices (for physical contact) and actuators with ubiquitous computing background. The Intelligent Space (iSpace) can sense the whole space and evaluate the situations in the space. The robots or mobile agents working in the space utilize the evaluated information by iSpace. The intelligent space serves as a distributed communication channel between human and machine.

Topics

- Distributed Intelligent Sensors
- 3D Internet
- Adaptive machinery personalization
- Psychologically and ethologically inspired Human System Interaction
- Cognitive robot programming and supervising
- Intelligent Space
- Robot ethology

Authors' Schedule:

Deadline for submission of abstract: **February 28, 2010**
Notification of selected papers acceptance: **March 09, 2010**
Final manuscripts of selected papers due: **April 06, 2010 (after the workshop)**



iSpace Laboratory Network



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