17th IEEE International Conference on Emerging Technologies & Factory Automation

17-21 September 2012, Kraków, Poland

ETFA'2012

Track Technical Program Committee

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Call for Papers

Track 7. Intelligent Robots & Systems

Track Co-Chairs
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Topics within the scope of the track: Intelligent robots and embedded systems can be more commonly found in many industry applications. Such systems become to appear also in human living environments including hospitals, museums, homes and urban environments. The progressive development of technology gives possibility to apply advanced theory to create a new generation of robotic systems which can interact with the environments and humans more efficiently. The aim of Track on Intelligent Robots and Systems is to gather researchers report and recent achievements in the development of real-world robotic applications, robot prototypes, intelligent embedded systems, robot programming, applications of artificial intelligence, cognitive science and signal processing in robotics, as well as benchmarking and usability studies. Researchers are especially encouraged to submit paper emphasizing the integration of different capabilities in either a single or in distributed robotic system. The topics of the track include, but are not limited to:

- Cognitive robotics
- Cooperative and collaborative robotics
- Multi-agent systems and distributed robotics architectures
- Human-robot interaction
- Integrated intelligence
- Intelligent robot assistants
- Intelligent embedded systems
- Robot programming
- Natural language grounding
- Path planning and collision avoidance
- Navigation, control and manipulation for intelligent robots and systems
- Perception, environment description and map building
- Mobile manipulation
- Planning and failure recovery
- Network robotics
- Reasoning under uncertainty
- Robot learning
- Advanced sensors and vision systems in robotics
- Usability studies

Further Information: ETFA'12 Conference Secretariat: contact@etfa2012.org

Submission of Papers: The working language of the conference is English. Two types of submissions are solicited. Long Papers – limited to 8 double column pages in a font no smaller than 10-points. Work-in-Progress and Industry practice – limited to 4 double column pages in a font no smaller than 10-points. Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site.

Best Paper Award: Best paper awards in Factory Automation and Emerging Technologies will be presented at the conference banquet dinner. Authors of outstanding papers will be invited to submit a revised version of their papers for publication in a special section of a leading journal.

Paper Acceptance: Each accepted paper must be presented at the conference by one of the authors. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee, and their travel expenses.

No-show Policy: The ETFA 2012 Organizing Committee reserves the right to exclude a paper from distribution after the conference at IEEE Xplore if the paper is not presented at the conference.

Author's Schedule:
Deadline for submission of long and special sessions papers: March **25, 2012**
Notification of acceptance of long papers: May 30, 2012
Deadline for submission of work-in-progress papers and Industry practice: June 8, 2012
Notification of acceptance of work-in-progress papers and Industry practice: July 1, 2012
Deadline for submission of final manuscripts – long and special sessions: July 8, 2012
Deadline for submission of final manuscripts – work-in-progress papers and Industry practice: July 8, 2012