

## CALL FOR PAPERS



### Special Session on Collaborative Robots and Human Robot Interaction

The 2007 International Symposium on Collaborative Technologies and Systems  
(CTS 2007)

May 21-25, 2007

Embassy Suites Hotel-Lake Buena Vista Resort  
Orlando, FL, USA

**Submission Deadline: December 28, 2006**

#### **BRIEF DESCRIPTION:**

The presence of robotic technologies (from small unmanned ground sensors to multi-ton unmanned vehicles) and concurrent existence of research and development programs is growing in many field applications, in both military and civilian operational environments. In the near future, we anticipate that robots will be increasingly employed collaboratively to achieve common goals. The interaction among collaborative robots as well as between robots and their human operators is critical to the successful employment of robots, and, therefore, needs careful examination.

This special session on collaborative robots - to be held as part of the 2007 International Symposium on Collaborative Technologies and Systems, May 21-25, 2007, at the Embassy Suites Hotel-Lake Buena Vista Resort, Orlando, FL, USA - will focus on the areas of collaborative robotic technologies (including unmanned aerial and ground vehicles) and human-robot-interaction. We invite original contributions from researchers in academia, research laboratories, and the computer industry on these emerging and important areas of information technology. Our goals are to provide a dedicated session that fosters closer interaction among researchers and user communities, and to provide a forum in which researchers and users can exchange their findings and ideas.

#### **Topics of interest include (but are not limited to):**

##### **Collaborative Robots and Unmanned Vehicles**

- Intelligent autonomous vehicles and systems
- Control of a team of robots in a mission

- Cooperating autonomous robots
- Robots in crisis management
- Agent-based distributed systems

### **Human-Robot Interaction (HRI)**

- HRI metrics
- HRI applications
- HRI for heterogeneous teams
- HRI Multi-modal interfaces
- Adjustable/adaptive automation
- User interface designs and usability evaluations

### **INSTRUCTIONS FOR AUTHOR:**

Authors are invited to submit original papers to the special session organizers by **December 28, 2006**. Electronic (postscript or pdf) submissions are encouraged and should be sent to [klin@pegasus.cc.ucf.edu](mailto:klin@pegasus.cc.ucf.edu), [jessie.chen@us.army.mil](mailto:jessie.chen@us.army.mil), or [Louis.Chan@wpafb.af.mil](mailto:Louis.Chan@wpafb.af.mil). For other electronic formats, please check with the organizers. All submitted manuscripts will have at least three reviewers. Papers should not exceed 5000 words. In addition, include up to 5 keywords and an abstract of no more than 350 words. Submissions should also include the title, authors name, affiliation, e-mail address, fax number and postal address. In case of multiple authors, an indication of which author is responsible for correspondence must be indicated. For non-electronic submission, please send four copies of the manuscript to one of the special session co-organizers.

### **SPECIAL SESSION ORGANIZERS:**

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**Technical Program Committee:**

All submitted papers will be rigorously reviewed by the special session technical program committee members.

(This committee will be announced later)

**IMPORTANT DATES:**

**Abstract Submission Deadline ----- December 28, 2006**  
**Notification of Acceptance ----- February 9, 2007**  
**Registration & Camera-Ready Manuscripts Due ----- March 4, 2007**

For information or questions about Symposium's paper submission, tutorials, exhibits, demos, panel and special sessions organization, please consult the conference web site at URL: <http://www.engr.udayton.edu/faculty/wsmari/cts07/>.