

**The 2008 International Symposium on Collaborative Technologies and Systems  
(CTS 2008)**

May 19-23, 2008

The Hyatt Regency Irvine  
Irvine, California, USA

<http://cisedu.us/cis/cts/08/>



## **CALL FOR PAPERS**

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

**Submission Deadline: January 21, 2008**

#### **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 2008 International Symposium on Collaborative Technologies and Systems, May 19-23, 2008, at the Hyatt Regency Hotel, Irvine, California, USA - will focus on the areas of collaborative robotic technologies (including unmanned aerial, sea 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 robotic systems
- Companion and assistive robots

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

- HRI Multi-modal interfaces
- User interface designs and usability evaluations
- Interaction control in robotic systems
- Cognitive modeling/science in HRI
- Adjustable/adaptive automation
- Human-robot cooperation in teamwork
- HRI for heterogeneous teams
- Experiments on HRI collaboration
- HRI metrics
- Ethnography and field studies
- HRI applications

### **INSTRUCTIONS FOR AUTHOR:**

Authors are invited to submit original papers to the special session organizers by **January 21, 2008**. Electronic (postscript or pdf) submissions are encouraged and should be sent to [klin@mail.ucf.edu](mailto:klin@mail.ucf.edu), [jessie.chen@us.army.mil](mailto:jessie.chen@us.army.mil), and [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. Draft 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:**

#### **Dr. Kuo-Chi “Kurt” Lin**

Institute for Simulation and Training (IST)  
 University of Central Florida  
 3280 Progress Drive  
 Orlando, FL 32826 USA  
 Voice: (407) 823-0137  
 Fax: (407) 823-0208  
 Email: [klin@mail.ucf.edu](mailto:klin@mail.ucf.edu)

#### **Dr. Jessie Chen**

Army Research Laboratory- Human Research & Engineering Directorate  
 12423 Research Parkway  
 Orlando, FL 32826 USA

Voice: (407) 384-5435  
Fax: (407) 384-5454  
Email: [jessie.chen@us.army.mil](mailto:jessie.chen@us.army.mil)

**Mr. Louis Chan**

Integrated Demonstrations and Applications Laboratory (IDAL)  
Sensors Directorate  
Air Force Research Laboratory  
AFRL/RYRA  
Bldg 620, 2241 Avionics Circle  
Wright-Patterson AFB, OH 45433 USA  
Voice: (937) 904-9597  
Email: [Louis.Chan@wpafb.af.mil](mailto:Louis.Chan@wpafb.af.mil)

**Technical Program Committee:**

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

- Mr. Michael Barnes, U.S. Army Research Laboratory, USA
- Dr. Jorge Dias, Universidade de Coimbra, Portugal
- Dr. Ruediger Dillmann, Universität Karlsruhe (TH), Germany
- Dr. Brian Goldiez, University of Central Florida, USA
- Dr. Eric Hendricks, U.S. Navy SPAWAR, USA
- Dr. Gordon Lee, San Diego State University, USA
- Dr. Jun Peng, Central South University, China
- Dr. Antonio Bandera Rubio, Universidad de Malaga, Spain
- Dr. Randy Shumaker, University of Central Florida, USA
- Dr. Cristina Urdiales Garcia, Universidad de Malaga, Spain
- Dr. Jingang Yi, San Diego State University, USA
- Dr. Changjiu Zhou, Singapore Polytechnic, Singapore

**IMPORTANT DATES:**

**Abstract Submission Deadline ----- January 21, 2008**  
**Notification of Acceptance ----- February 11, 2008**  
**Registration & Camera-Ready Manuscripts Due ----- March 3, 2008**

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://cisedu.us/cis/cts/08/> or contact the symposium co-chairs: Bill McQuay at AFRL/IFSD, WPAFB ([William.McQuay@wpafb.af.mil](mailto:William.McQuay@wpafb.af.mil)) or Waleed W. Smari at the Dept. of Electrical and Computer Engineering, University of Dayton ([Waleed.Smari@notes.udayton.edu](mailto:Waleed.Smari@notes.udayton.edu)).