



IEEE RO-MAN 2005

14th IEEE Workshop on Robot and Human Interactive Communication

Co-Existence and Collaboration of Humans and Robots in the 21st Century

August 13-15, 2005

Marriott at Vanderbilt, Nashville, Tennessee, USA

◀◀◀ CALL FOR PAPERS ▶▶▶▶

This year's workshop theme addresses fundamental issues of the co-existence of human and intelligent machines and recent advancements of technological advancements as well as psychological research on interactive communication and collaboration. Traditionally, RO-MAN workshops aim to expand research outcomes to the real-world applications for the enhancement of human-competence in such intelligent-human-machine interaction in a networked society. Philosophical fundamentals, psychological advancements and methodological extensions towards new human-robot interaction paradigms are comprehensively scoped in the workshop. The focus of the workshop includes the following topics. The workshop will also include special sessions.

Topics: The scope of the workshop includes but is not limited to:

- Embodied interaction and communication
- Multi-modal communication
- Face and body expression and recognition
- Philosophical issues of human-robot coexistence
- Cognitive psychology in human-robot interactions
- Artificial emotion and emotional communication
- Human factors evaluations for human-robot systems
- Virtual and augmented tele-presence environments
- Robotic therapy and medical/surgical applications
- Socially interactive robots
- Entertainment and education robots
- Collaborative robots in manufacturing environments
- Situation recognition and understanding of task contexts
- Motion, task planning, coordination in human-robot teams
- Skill acquisition through teaching, interaction, or imitation
- Robot assistants for care for the elderly and disabled

INSTRUCTIONS FOR AUTHORS:

Papers reporting original and unpublished research results pertaining to the above and related topics are being solicited. Submissions should include the title, all authors, e-mail and postal address(es), tel/fax numbers, and abstract on the first page. All paper submissions should be in English and 4-6 pages in length (using the IEEE two-column template). The online submission will begin in early March.

Only online submissions will be accepted.

Authors should represent substantially new work that has not been previously published. RO-MAN 2005 Workshop papers will be selected on their originality, significance, relevance, and clarity of presentation. The initial paper submission deadline is April 5. Online instructions for authors will be available by mid-February. Authors of selected papers will be invited to submit their final version for publication in the *Proceedings*. Final camera-ready submissions are due by June 25.

SPECIAL SESSION ORGANIZERS:

Organizers of prospective Special Sessions should contact Nilanjan Sarkar (nilanjan.sarkar@vanderbilt.edu) by March 15 to state your intention. The special session proposal deadline is April 5.

IMPORTANT DATES:

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| April 5, 2005 | Proposals for special sessions |
| April 5, 2005 | Paper submission deadline |
| May 30, 2005 | Notification of Acceptance |
| June 25, 2005 | Camera-ready final papers due (.pdf format only) |
| June 25, 2005 | Conference registration due (authors) |
| August 13-15, 2005 | Conference in Nashville |

ORGANIZING COMMITTEE:

General Co-Chairs: **Kaz Kawamura**, Vanderbilt Univ, USA
kawamura@vuse.vanderbilt.edu
Alan Schultz, Naval Research Lab, USA
schultz@aic.nrl.navy.mil

Program Co-Chairs: **Marjorie Skubic**, Univ of Missouri – Columbia, USA
skubicm@missouri.edu
Nilanjan Sarkar, Vanderbilt Univ, USA
nilanjan.sarkar@vanderbilt.edu

Publications Chair: **Mitch Wilkes**, Vanderbilt Univ, USA
wilkes@vuse.vanderbilt.edu

Finance Chair: **Ali Sekmen**, Tennessee State Univ, USA
asekmen@Tnstate.edu

Local Arrangements Chair: **Julie A. Adams**, Vanderbilt Univ, USA
julie.a.adams@vanderbilt.edu

Student Program Chair: **Tamara Rogers**, Tennessee State Univ, USA
trogers3@Tnstate.edu

Publicity Co-Chairs: **Carlotta J. Berry**, Tennessee State Univ, USA
cjohnson35@Tnstate.edu
Flo Fottrell, Vanderbilt Univ, USA
cis-irl@vuse.vanderbilt.edu

Webmaster: **Will Dodd**, Vanderbilt Univ, USA
will.dodd@vanderbilt.edu

Secretariat: **Flo Fottrell**, Vanderbilt Univ, USA
cis-irl@vuse.vanderbilt.edu

SPONSORS: IEEE Industrial Electronics Society
IEEE Systems, Man & Cybernetics Society
Robotics Society of Japan / NTF

TECHNICAL CO-SPONSOR: IEEE Robotics & Automation Society

INVITED SPEAKERS: **Rob Ambrose** (NASA / Johnson Space Center, Houston)
Aude Billard (Swiss Federal Institute of Technology at Lausanne EPFL)
Robin Murphy (Univ of Southern Florida, Tampa)

STUDENT PAPERS: There will be a *Best Student Paper Award* competition.

REGISTRATION: Online registration will begin February 18, 2005. SailAir Travel will oversee the registration process.
SailAir is also available to assist in airline reservations, etc. for your travel needs. Their representative is Wendy Vasser at group@sailairtravel.com.

HOTEL RESERVATIONS: Hotel reservations [<http://eecs.vanderbilt.edu/Roman2005/hotel.html>] may be made by contacting the *Marriott at Vanderbilt Hotel* directly online at: <http://marriotthotels.com/property/propertypage/bnaav> .
Please use the special *Group Code for your hotel discount: **IEEIEEA***.

TOURISM: Please visit our website for tourist activities and links, including the Chamber of Commerce <http://www.nashvillechamber.com/> and the Tennessee Department of Tourist Development at <http://www.tnvacation.com/>

For further information, please contact the RO-MAN 2005 Secretariat at:

Florence (Flo) Fottrell
Center for Intelligent Systems / RO-MAN 2005
VU Box 350131 Sta B
Nashville TN 37235-0131 USA
1.615.343.0697 (Phone) 1.615.322.7062 (Fax)
cis-irl@vuse.vanderbilt.edu (E-mail)