

RAHA 2016

International Conference on
Robotics & Automation for Humanitarian Applications
December 18-20, 2016 Amrita University, India
www.raha2016.org



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CALL FOR PAPERS

The inaugural International Conference on Robotics and Automation for Humanitarian Applications (RAHA) provides a platform for researchers, engineers, industry professionals, and humanitarian workers to share knowledge about technological tools, methodologies, and applied robotics and automation solutions for humanitarian applications. The conference on robotics for humanitarian causes will bring together technological innovators and humanitarian field workers to identify gaps and initiate a dialog to alleviate suffering of those less fortunate thereby increasing the effectiveness of humanitarian efforts on the ground. Emphasis will be placed on important factors that need to be taken into consideration such as environmental, cultural, structural, political and socio-economic and resource constraints while developing robotics and automation solutions that can be developed, deployed, and sustained.

CONTRIBUTED PAPERS

Papers on applied research in robotics and automation lending to humanitarian applications are invited. All papers will be reviewed using a single-blind review process. Prospective authors should submit PDF versions of their paper. Six pages in standard IEEE format are allowed for each paper, including figures and references. A maximum of two additional pages can be purchased. Authors are invited to submit a video to complement their submission. Accepted papers will be published as conference proceedings and indexed in IEEE Xplore.

TUTORIALS AND WORKSHOPS

Proposals for half-day or full-day tutorials and workshops are invited. Tutorials will be held on the day before the main technical sessions. Tutorials target more established research areas and provide insights into the state of the art presented by recognized researchers in the field. RAHA workshops will offer attendees multiple opportunities for intensive learning experiences through lectures, group discussions, and Q&A.

POSTER SESSION

The poster session represents an effective and valuable means for authors to present their papers. It offers the presenters the opportunity to share their work related to applied research in robotics and automation, and issues in humanitarian field efforts. Students are particularly encouraged to submit their current research to the poster session so that they can network with the attendees and obtain critical feedback from experts and practitioners attending the conference. Topics of interest are the same as research topics of main tracks. The last date of the poster session is July 15, 2016.

AREAS OF INTEREST INCLUDE TOPICS RELATING TO ROBOTICS AND AUTOMATION TECHNOLOGIES IN:

- Disaster prevention, preparedness, response, and recovery efforts
- Nuclear site monitoring, decommissioning, and hazardous waste cleanup
- Applications of unmanned ground, aerial, and marine vehicles
- Collaborative and cooperative robotics
- Search and rescue
- Firefighting
- Casualty assessment, care, and extraction
- Agriculture
- Locomotion, load carrying, and manipulation
- Demining
- Inspection and structural assessment of critical infrastructure
- Floods, landslides, and earthquakes
- Robotics and haptics for education and learning
- Rehabilitation and assistive robotics
- Medical and surgical robotics
- Wearable assistive devices
- Telemedicine
- Robotics for automotive safety
- Role of NGOs/NPOs and funding agencies in identifying deployment needs and benefits and sustainability

IMPORTANT DATES

June 24, 2016:
Last date for paper submissions
and tutorial proposals

September 01, 2016:
Notification of accepted papers

October 01, 2016:
Submission of camera-ready papers