



Austrian Robotics Workshop

Focus: Robotics in Healthcare

Call for Papers – Villach, 14. and 15. June 2022

The Austrian Robotics Workshop aims to provide a vivid environment for exchange about current research topics in the area of robotics and related technologies. It will be held at Congress Center Villach from June 14-15, 2022. This year's workshop comes with an additional focus on the emerging topic "**Robotics for Assistance and in Healthcare**".

We are looking forward to the presentation and discussion of research progress as well as current projects. A specific goal is to strengthen the cooperation between academia and industry. Therefore, contributions and participation from industry are strongly encouraged.

"**Robotics for Assistance and in Healthcare**" is a growing research area and upcoming focus field of industry. Consequently, we especially encourage submissions covering topics related to this field.

Further, the general topics of the workshop include but are not limited to:

- Design, Construction and Fabrication of Robotic Assistance Systems
- Modelling and Design for Robotics in Assistance and Healthcare
- Robot Modelling
- Software Design & Architecture
- Estimation, Diagnosis and Learning
- Mobile and Service Robots
- Field and Rescue Robots
- UAV, UGV, Autonomous Systems
- Human Robot Interaction, Usability
- Planning and Reasoning
- Realistic Sensor Simulation
- Robot Sensing and Perception
- Sensor Modelling and Calibration
- Sensor Reliability
- Near-Field Sensors in Robotics
- Robotics with applications in Assistance and Healthcare
- Applications in Industry and Education

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Preliminary Program

The program will include invited talks, oral presentations of referred research papers, a student-paper poster track as well as demonstrations from industry and academia.

Organizing Committee

Workshop Chair:

- Lisa-Marie Faller, FH Kärnten

Program Chair:

- Justus Piater, Universität Innsbruck

Workshop Co-Chairs:

- Mathias Brandstötter, Joanneum Research
- Gerald Steinbauer, TU Graz

Web Chair:

- Alexander Numrich, GMAR



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Keynote Speaker

- Margit Gföhler (TU Wien)
- Tommy Swigart (Kinova)
- Bernhard Rinner (Alpen-Adria-Universität Klagenfurt)

Important Dates

- December 20, 2021: Call for Papers available
- January 11, 2022: Paper Submission Open
- April 4, 2022: Submission deadline
- May 3, 2022: Notification of acceptance
- May 17, 2022: Camera-ready paper, deadline for registration
- June 14-15, 2022: Austrian Robotics Workshop

Submission Types

- Research Paper (4-6 pages)
- Student Paper (2 pages)

Paper Electronic Submission

All submission types should be submitted before the deadline via the EasyChair conference system (Link will be announced in January). Papers should be formatted according to the style of IEEE conferences (LaTeX template is available for download at the conference homepage). Please indicate the submission type: (a) Research paper or (b) student paper. We strongly encourage students to submit as principal (first) author a paper to this joint workshop. ARW donates best paper awards for best research as well as best student paper presented at the workshop.

All submissions will be subject to peer-review by the program committee and notification of acceptance or rejection will be sent to the corresponding author. Only submissions with at least one author as registered and presenting participant will be included in the workshop proceedings. Workshop proceedings will be published in digital format (with ISBN).

Venue

Congress Center Villach, Europaplatz 1, 9500 Villach, Austria

Organization & Sponsoring

The workshop is organized under the auspices of FH Kärnten partially as part of the iLEAD project (Project nb. 884136). The workshop will be supported by GMAR – Gesellschaft für Mess-, Automatisierungs- und Robotertechnik and by the IEEE Robotics and Automation Society Austrian Chapter.

Contact

For more information please consult

<http://www.roboticsworkshop.at>

or contact

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