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IMPORTANT DATES

Paper/PhD-Forum Submission

August 17th, 2021

Acceptance Notification

August 25th, 2021

Final Paper Submission

September 5th, 2021

Workshop

September 27th, 2021
14:00-16:00 CEST

WORKSHOP WEBSITE



www.proxelsandtaxels.org

CALL FOR PAPERS

4th Workshop at IROS 2021 on Proximity Perception in Robotics: Increasing Safety for Human-Robot Interaction using Tactile and Proximity Perception

Proximity and tactile sensors attached to the surface of robots offer great potential for human-robot interaction, especially for improving safety. The workshop addresses the open questions on safety-related applications involving proximity and tactile systems and sim-to-real learning. Since the adoption of tactile and proximity perception technologies in industrial applications is still rare, the workshop continues to bridge the gap between research and industry as well as between the proximity and tactile perception communities.

The workshop accepts contributions in two formats: Interested participants can submit new results in the form of short papers. In addition, we offer PhD students the opportunity and a platform to present their work in the form of talks in the PhD-forum. Accepted papers will be published in the workshop proceedings together with the abstracts of the workshop talks. For more information and the full program, please visit our workshop website:

www.proxelsandtaxels.org

Paper/PhD-forum Submission:

Paper: Please submit a paper with a length of min. 2 and max. 3 pages.

Novel ideas/experimental results are required for acceptance.

PhD-Forum: Please submit an abstract of your talk with a length of 1 page.

Submit the contributions to: iros2021-workshop@joanneum.at

All submissions will be reviewed using a single-blind review process.

Topics of Interest

Proximity Sensors

Multi-Modal Sensors (tactile, shear, vision, etc.)

Robotic Skins (architectures)

Bridging from Tactile to Proximity Perception

Bio-Inspired Robotics

Multi-Modal Sensors for Soft Robotics

Applications:

Human-Robot Interaction, Human-Robot Collaboration, Collision Avoidance, Multi-Modal Control, Teleoperation with Proximity Sensing, Prosthetics, Assistive Robots, Preshaping and Grasping, Haptic Exploration, Intuitive Robot Programming, Human-Robot Interface

Support

IEEE RAS Technical Committee Robotic Hands, Grasping and Manipulation

IEEE RAS Technical Committee Human-Robot Interaction and Coordination

IEEE RAS Technical Committee on Haptics