

Special Session

Robotics for Healthcare and Assistive Applications

Description/Scope

This special session focuses on the role of robotics in healthcare and assistive applications. Researchers, clinicians, and engineers working on the development and deployment of robotic technologies in healthcare settings will share their insights, challenges, and success stories.

Topics (but are not limited to)

- Robotics surgery;
- Rehabilitation robotics,
- Collaborative robotics
- Assistive robotics for the elderly and disabled,
- Prosthetics and exoskeletons,
- Industrial robotics
- Telemedicine, and
- Healthcare automation.
- Human-in-the loop robotic assistance
- Adaptation and learning in robotics;
- Human motion intention prediction
- Human-Robot interfaces;
- Devices/technologies for human-robot interaction and perception;
- Human robot interaction;
- Ethics concerns;
- User-centered design.

Organizers

Cristina P Santos, University of Minho, Portugal

Amalia Garcia, University of Málaga, Spain

Nuno Ribeiro, University of Minho, Portugal

Joana Figueiredo, University of Minho, Portugal

Program Committee

Virginia Ruiz, University of Mondragon

Jaime Fonseca – University of Minho

Jorge Martins – Instituto Superior Tecnico

João Sequeira - Instituto Superior Tecnico

Cecilia Garcia - Centre for Automation and Robotics from Universidad Politecnica de Madrid

Filomena Soares - University of Minho

Joaquin Ballesteros – University of Malaga

Nuno Lau – University of Aveiro

Armando Sousa – University of Porto

António Paulo Moreira – University of Porto

Manuel Silva – Polytechnic of Porto