

Call for Papers
1st Workshop on Assistive Robots: Technological Challenges and the User
Perspective
Part of PETRA'17 Conference (www.petrae.org)
June 21-23, Rhodes Island, Greece

Workshop page URL:

<http://www.petrae.org/workshops/AR.html>

Important dates:

Paper submission deadline: March 3, 2017

Notification of acceptance: March 17, 2017

Final version due: March 31, 2017

Abstract: This workshop will address issues relating to developments in the area of assistive robots, including the technologies which allow more efficient robot performance, human-robot interaction and communication aspects towards a more natural human-machine collaboration, as well as the user perspective in designing and evaluating assistive devices.

A primary goal of assistive robots is to become more efficient and more user friendly, especially by increasing user confidence and motivation. These tasks require enhancement of various integratable technologies and advanced communication strategies. In this landscape, end-user validation is heavily based on the systems' motivation and human-like HRI characteristics, which, in principle, target intuitive human-robot communication and cooperation by exploiting a full spectrum of human communication and sensory-motor channels and strategies.

List of Topics:

Topics of interest include, but are not limited to:

- Improvement of future systems' cognitive capacities
- Exploitation and fusion of multiple human modalities in HRI
- Speech recognition,
- Speech synthesis,
- Gesture and action recognition,
- Multimodal interfaces
- End-user design requirements and validation strategies

This workshop aims to provide a meeting point for the multidisciplinary community of researchers addressing the different aspects that contribute towards making assistive robots accepted by their end users. Thus, a constructive dialogue is expected among groups involved in robot engineering, HRI, rehabilitation and validation of prototypes.

Workshop organizers:

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