

IEEE INTERNATIONAL WORKSHOP ON ADVANCED MOTION CONTROL AMC2020

**APRIL 20-22, 2020
KRISTIANSAND, NORWAY**

Special Session on “Soft Motion for Advanced Human-Robot-Interaction”

organized by

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Call for Papers

It is expected that robots can directly support various human activities, not only for development of industry but also for improvement of Quality of Life (QoL). Advanced motion control technology for soft interaction between human and robot will be a key technology. In addition, new backdrivable actuation and force sensing techniques oriented to applications to physical support robots will also be a technological challenge. The scope of this special session is to present the most innovative results to the large audience of AMC2020. This Special Session will focus on, but is not limited to, the following topics of interest:

- Direct Drive Actuator and Series Elastic Actuator
- Advanced Force Sensing for Physical Contact
- Backdrivability Improvement in Geared Motion System
- Motion Control for Soft Interaction
- Design and Development of Human Support Robots

IES Technical Committee Sponsoring the Special Session (if any):

Technical Committee on Motion Control (TCMC)

Technical Committee on Sensors and Actuators (TCSA)