

Proposal of Open Invited Track

Title:

Soft Motion Control for Physical Human-System-Interaction

Track Proposed by:

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The choice of an IFAC technical committee for evaluation:

TC4.2 - Mechatronic Systems

Keywords:

Motion Control Systems, Mechatronic systems, Human Mechatronics

Abstract:

Future mechatronic systems are expected to realize direct support for human activities. Achievement of physical interaction between human and system is an important technical issue. Especially, physical support systems should attain precise control function of contact force. Then, haptics will be a key technology for realization of soft interaction.

The scope of this open track is to present the most innovative results to the large audience of IFAC 2017 World Congress. Topics of interest include, but are not limited to:

- Real World Haptics
- Force Control and Compliance Control
- Force Feedback Control in Teleoperation
- Power Assist Control
- Medical and Rehabilitation Applications
- Acquisition and Recognition of Human Motion
- Sensors and Actuators for Physical Support Systems
- High Backdrivability in Actuation system

Web Site:

None

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