

IEEE ICM2021

INTERNATIONAL CONFERENCE ON MECHATRONICS

7 - 9 MARCH 2021, KASHIWA, JAPAN

Special Session on

“Smart Precision Motion Control in Mechatronic Systems”

Organized by

Kazuaki Ito, Gifu University, kazu_it@gifu-u.ac.jp
Kenta Seki, Nagoya Institute of Technology, k-seki@nitech.ac.jp
Wataru Ohnishi, The University of Tokyo, ohnishi@koseki.t.u-tokyo.ac.jp
Tom Oomen, Eindhoven University of Technology, T.A.E.Oomen@tue.nl

Call for Papers

Varieties of mechatronic applications require advanced motion control techniques, realized by integrating smart control strategies, high precision sensing, and innovative actuators. Advanced motion control methodologies and/or techniques for fast and precise control of motion (position, velocity, and force) in various industrial mechatronic systems will bring innovative solutions and high quality of life.

The scope of this special session is to bring together prominent researchers in the field of motion control, and to create an atmosphere that attracts, triggers discussion between, and encourages future collaborations between contributors and attendants from both academia and industry in the fields of motion control.

Topics of interest include, but are not limited to:

- High precision actuators and sensors in motion control systems
- High precision positioning techniques in industrial mechatronic systems
- Mass storage control systems
- Modeling and compensation techniques for nonlinearities in industrial mechatronic systems
- Robust and/or adaptive controller algorithms, sensor fusion, and novel mechanical design

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

Technical Committee on Motion Control