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Special Session on

**“Emerging Technologies for Advanced Motion Control and  
Mechatronics”**

Organized by

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## Call for Papers

Advanced motion control technologies are deployed in numerous mechatronic systems, especially those which are dynamically acting in heterogenous, varying, active, and human-accessible environments. In addition to the control technologies, novel sensor devices and actuator components play indispensable role for realizing the smart motion control architectures and strategies. Cutting-edge studies on these technologies feature model-, knowledge- and data-based, self-tuning, adaptive, and robust motion control methods and algorithms, together with novel software and hardware solutions implemented in dynamic mechatronic systems. The purpose of this Special Session is to provide a research forum for exchanging and following up the ideas, recent trends, and achieved results in these fields. The application-related studies are most welcome.

Topics of interest include, but are not limited to:

- Motion control of mechatronic systems
- Advanced actuator and sensor technologies in motion control
- Controlled motion systems with human-in-the-loop
- Robotics and mechatronics for assistive, rehabilitation, and medical applications
- High precision motion control systems
- Related applications of motion control technologies