

Special Issue on Advanced Positioning Technology: Mechanisms, Actuators, Sensors, Control, Measurement and Industrial Applications

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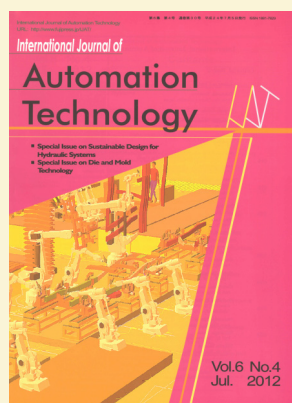
Organized by Technical Committee for Ultra-Precision Positioning, The Japan Society for Precision Engineering (JSPE)

Positioning systems play an important role in industrial and scientific applications. Therefore, their performance improvements and functional expansions are crucial. Positioning systems generally consist of mechanisms, actuators, controllers, and sensors, and the performance and functions of the system depend on their integration. Therefore, positioning technologies encompass these elements and their integration. Furthermore, technologies such as AI and IoT are being incorporated to improve the performance and functionalities, and expand the applications. This special issue aims to provide researchers with access to the latest research and practical case studies on elemental technologies for positioning, and industrial and peripheral technology applications. The topics of interest in this special issue include but are not limited to the following:

- Elemental technologies: Design and Characteristics of Mechanisms and Actuators, Control technology, Sensors, Measurement technology, System design, Simulations, Materials
- Industrial applications: Machine tools, Semiconductor manufacturing equipment, Measuring instruments, Robots, Scanning probe microscope
- Applications of peripheral technologies: AI, IoT, Signal processing, Image processing, DX, Green Technology.

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