actuators

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 3.2

Design and Control of High-Precision Motion Systems

Guest Editors:

Dr. Jinchuan Zheng

Dr. Hai Wang

Dr. Silu Chen

Dr. Ke Shao

Deadline for manuscript submissions:
closed (31 July 2022)

Message from the Guest Editors

Driven by the increasing demand from industry, high-precision motion systems require new design methods on mechanisms, actuators, sensors, and control algorithms to achieve faster response, higher repeatability, more compact size, and lower cost. Advances in high-precision motion systems will make them applicable to a wider range of industrial processes such as nanofabrication machines, hard disk drives, 3D printing devices, scanning and imaging systems, etc. This will also bring economic benefits in terms of product quality, manufacturing efficiency, functionality, and reduced cost. This Special Issue invites contributions from the aspects of mechanism design, system identification, control and estimation, and actuator and sensor design relevant to high-precision motion systems.

- System modelling
- Control and estimation
- Mechanism design
- Microactuators
- Motion sensors
- Vibration control
- Motion control applications