



Actuators in Manufacturing Robotics and Mechatronics

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Message from the Guest Editor

Dear Colleagues,

Robotics and mechatronics technologies are rapidly changing the face of manufacturing. Robots perform a variety of manufacturing tasks including welding, assembly, materials handling, and materials processing. Thanks to the advances in sensing (vision, tactile, force and acoustic) and machine learning, robots are made smarter and more aware of their situation and surroundings, autonomously performing lights-out manufacturing in factories of the future. The introduction of collaborative robots into manufacturing is posed to revolutionize production lines. Cobots are able to co-work with humans safely. This Special Issue will feature the recent advances in cutting-edge robotics and mechatronics for manufacturing.

Keywords:

- Noval actuation for precision manufacturing
- Sensing and mechatronic control in manufacturing
- Collaborative robots for manufacturing
- Autonomous robots in manufacturing
- Automation of manufacturing processes
- Automated materials processing
- Cyber-physical manufacturing systems

