



Intelligent Control of Actuator Systems

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Message from the Guest Editors

Actuators are a key component of a cyberphysical system, which senses the real world environment, makes decisions using the sensed data, and then activates a response system. Actuators form a key element of the response system. Actuators rely on both feed forward and feedback systems, controlled via software, to make intelligent decisions. Such smart actuators are the cornerstone of Internet of Thing (IoT) devices found in smart devices.

This Special Issue will be devoted to topics related to the use of artificial intelligence in the area of actuator technology. Such topics include but are not limited to:

- Use of machine learning techniques to improve decision making;
- Closed loop (feedback) control of actuators;
- Resource-aware actuator systems;
- Cognitive actuator systems;
- Latency and determinism topics related to sensor-actuator interactions;
- Energy efficient actuator systems;
- Security in actuator systems (centralized);
- Blockchain/DLT techniques for security in distributed actuator systems;
- Sensors and actuators for smart systems;
- Testbed architectures for testing smart actuators.

