

Special Issue

Actuator Technologies and Control: Materials, Devices and Applications

Message from the Guest Editor

We plan to publish a Special Issue in the journal *Actuators* to provide a broad overview of the latest achievements of actuator technologies, control and their application in many fields of industry. Papers could be original research papers, as well as review papers, focused on the current state of the art in one of the areas covered by the journal's aims and scopes. The main topics of this Special Issue include, but are not limited to, the following:

- New actuator materials;
- Innovative actuator designs and device concepts;
- Miniaturized and micro-actuators;
- Assessment and precision measurements;
- Actuators for drive/control technologies;
- Actuators for manufacturing;
- Actuators for aircrafts and on- and off-road vehicles/machines;
- Actuators for robotics and other autonomous applications;
- Actuators for biomedical applications;
- Emerging control strategies for actuators.

Guest Editor

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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of \$1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: "Performance to Reliability", "Hard to Soft", "Macro to Nano", "Homo to Hetero" and "Single to Multi functional". We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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