Special Issue

Piezoelectric Applications for Robotics

Message from the Guest Editor

In the robotics, piezoelectric elements occupy a very important position in the subject of research and development, which is expected to remain in the future. To highlight the current status and perspectives, this Special Issue invites contributions from all aspects of piezoelectric actuators, sensors and energy generators, including but not limited to:

- Mechanism design for piezoelectric actuators, sensors, and energy generator
- Theory, modeling, and control of piezoelectric mechanisms
- Multi-degree-of–freedom mechanisms driven by piezoelectric actuators
- MEMS or miniaturized mechanisms for piezoelectric actuators, sensors and energy generators
- Manufacturing and processing of piezoelectric elements
- Applications in research, industry, and education
- Review articles

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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