

Special Issue

Wearable E-Textile Technologies: Sensors, Actuators, and Integrated Systems

Message from the Guest Editors

We are pleased to invite you to submit your papers to our Special Issue on Wearable E-Textile Technologies: Sensors, Actuators, and Integrated Systems. Wearable actuators are gaining momentum and starting to appear in people's lives. More and more wearable actuators have begun to enter our field of vision. The topics of interest for the Special Issue include, but are not limited to:

Electronic textiles;
Wearable sensors and actuators;
Acoustics and haptics;
Textile-based sensors and sensing algorithms;
New wearable architectures and layout;
Multi-actuator and cooperative systems;
Integrated sensor-actuator systems;
Design, fabrication, and optimization of novel sensors and actuators;
System-level modelling and simulation;
Innovative driving/sensing electronics;
Control concepts for actuator systems;
Self-powered sensing and actuating;
Data analysis and data mining.

Guest Editors

Dr. Rong Yin

Dr. Xiaomeng Fang

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Deadline for manuscript submissions

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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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