actuators

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Actuators in Microelectromechanical Systems (MEMS)

Guest Editor:

Prof. Dr. Attilio Frangi
Department of Civil and Environmental Engineering, Politecnico di Milano, 20133 Milano, Italy

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will present a collection of recent advancements in the field of microelectromechanical systems (MEMS) actuators. Just as the spread of MEMS sensors in the consumer world triggered a revolution of user interfaces in gaming, mobile phones, and navigation, new generations of actuators will dramatically impact our lives and will enable the evolution of the Internet of Things in its different declinations. Devices such as piezoelectric ultrasound transducers for range finding, echography and printing applications, loudspeakers for an improved audio reproduction fidelity and micromirrors enabling picoprojection, augmented reality and autonomous driving are hastily pervading our society.

Prof. Dr. Attilio Frangi
Guest Editor

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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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Contact Us

Actuators Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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