# Special Issue

# Piezoelectric Actuators and Ultrasonic Motors: Future Perspectives

### Message from the Guest Editor

Regarding the industrial commercialization of "Piezoelectric Actuators and Ultrasonic Motors", we can point out at least the following million selling products in the past 15 years: Inkjet printer (piezoelectric) by Epson, Diesel injection valve (multilayer) by Siemens, Bosch, Denso (Peugeot, Toyota), Camera module for mobile phones (micro ultrasonic motor) by Samsung Electromechanics (Galaxy series), Piezoelectric energy harvesting device for Programable Air-Burst Munition by Micromechatronics Inc. (US Army). This Special Issue seeks contributions addressing:

- Novel actuator designs;
- Deeper modeling/simulation algorithms;
- Innovative piezo-actuator drive/control schemes; and
- Niche application areas of piezoelectric actuators

for the coming 10 year market expansion.

### Guest Editor

Prof. Dr. Kenji Uchino
Emeritus Academy Institute, The Pennsylvania State University, University Park, PA 16802, USA

### Deadline for manuscript submissions

closed (30 November 2021)

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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.

## Editors-in-Chief

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