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Piezoelectric Actuators and Ultrasonic Motors: Future Perspectives

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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:

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

for the coming 10 year market expansion.
Prof. Dr. Kenji Uchino

Guest Editor