Special Issue

Micro/Nano Resonators, Actuators, and Their Applications

Message from the Guest Editors

The resonator is the core component of sensors, oscillators, filters, modulators, and other devices. Resonators are being developed for use at high frequencies and at the micro/nano scale. This introduces many challenges such as scale effects, nonlinearity, temperature stability, high quality factors, and acceleration sensitivity. Therefore, for both resonators of surface wave and bulk acoustic waves, it is necessary to establish new physical models and to put forward effective solutions to the aforementioned challenges. New fabrication techniques, materials, and testing methods are also needed to improve the performance of resonators. The goal of this Special Issue is to seek innovative solutions that take advantage of unique material properties and original designs to push the performance of actuators and micro/nano resonators beyond what is conventionally achievable.

Guest Editors

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