



Electromagnetic Levitation Actuators

Guest Editor:

Dr. Kirill V. Poletkin

School of Instrument Science
and Optoelectronics Engineering,
Hefei University of Technology,
Hefei 230009, China

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Message from the Guest Editor

Electromagnetic levitation phenomena have already become a driving force towards creating a new generation of actuators with inherent benefits, such as controllable mechanical friction, considerably extended motional range, thereby yielding actuators with wider operational capabilities, and at the same time, significantly reducing the dissipated energy. Complete elimination of mechanical attachments and, consequently, mechanical wear and control of mechanical friction by means of vacuum in such actuators open up a number of advantages, offering their further miniaturization and significant improvements in performance, and the promise of actuators with longer operational lifetimes.

This Special Issue is aimed at collecting original papers and state-of-the-art reviews with a focus on levitating actuators based on electric, magnetic, inductive, diamagnetic, superconducting, optical, and hybrid levitation.

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