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Magnetic Bearing Actuators

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Active magnetic bearings have several distinguishable advantages over other bearings—complete contact-free suspension of a rotating object, controllable and observable bearing force, lubrication-free and maintenance-free characteristics, etc. The range of applications steadily increases and novel systems are still being developed. This Special Issue is aimed at presenting this technology with a focus on the various aspects of actuators: Geometric design, choice of materials, modeling, analysis, measurement, control, and evaluation. Linear magnetic bearings for non-rotating objects are also targeted, even though "magnetic bearing" implies a rotating object.

Encouraged contributions related (but not limited) to novel configurations/functions, designs for special-condition operations, power amplifier and drive schemes, sensing/estimating techniques, sophisticated control schemes, coupled with motor drive, minimization of loss, and reduction of hardware, are welcome.

Prof. Takeshi Mizuno Guest Editor

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