Special Issue

Advanced Theory and Application of Magnetic Actuators

Message from the Guest Editors

Magnetic actuators are actuators which use magnetic force or Lorentz force, and are widely used in industry, defense, aviation, aerospace, and daily life. Magnetic actuators integrate electromagnetism, electronic technology, superconducting and cryogenic technology, control engineering, signal processing, mechanics, and dynamics. They have attracted extensive attention from scholars at home and abroad, thus representing a research hotspot in related fields. In order to solve the basic scientific problems and key technical problems related to magnetic actuators, and gather the frontier achievements of magnetic actuators and vibration control, Actuators has set up a Special Issue, titled "Advanced Theory and Application of Magnetic Actuators". This Special Issue also cooperates with the 10th Chinese Symposium on Magnetic Levitation Technology and Vibration Control, held on 29 July–1 August 2022, Shenyang, China. Authors of outstanding papers on topics related to the Special Issue presented at the conference are invited to submit extended versions of their work to this Special Issue.

Guest Editors

Prof. Dr. Suyuan Yu

Prof. Dr. Jin Zhou

Prof. Dr. Feng Sun

Dr. Ming Zhang

Deadline for manuscript submissions

closed (15 December 2022)

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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.

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