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MEMS Actuators and Sensors 2022

Guest Editors:

Message from the Guest Editors

Dr. Thilo Sandner

Dear Colleagues,

Prof. Dr. Gerald Gerlach

This Special Issue invites contributions in the following

Prof. Dr. Jan Mehner

topics, but is not limited to:

Deadline for manuscript submissions:

principles of micro-actuators: e.g. electrostatic, electromagnetic, piezo-electric, thermal, pneumatic, leviation

Novel MEMS device concepts and actuation

closed (30 September 2022)

- Closed loop control and sensing of resonant and non-resonant MEMS driving
- Optical MEMS; e.g. micro-scanning mirrors, spatial light modulators, Fabry-Perot-filter
- Acoustical MEMS: e.g. MEMS loudspeaker based on NED actuation
- MEMS for fluidic and pneumatic MEMS; e.g. micro valves and pumps, ink print heads
- Novel materials and MEMS fabrication technologies for micro-actuators: e.g. CMOS compatible piezoelectric MEMS based on AlNi or AlSrNi; smart hydrogel actuator, shape memory alloy based micro-actuators
- Practical application of micro-actuators: e.g. MOEMS based solid state LiDAR used for autonomous driving, tunable lasers, miniaturized NIR spectrometer; fluidic MEMS actuators for biomedical applications in diagnostics and lab-on-chip
- Review article on MEMS-actuators, their technology progress and application landscape













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Editor-in-Chief

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Message from the Editor-in-Chief

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(Instrumentation)

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