actuators

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Design and Application of Actuators with Multi-DOF Movement-2nd Edition

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Message from the Guest Editors

Dear Colleagues,

With the increasing demand for industrial automation and robotics worldwide, actuators with multi-degree-of-freedom (DOF) motion capabilities have been developed to enable more complex movements in machines and robots. Applications of multi-DOF actuators cover a wide range of fields, such as robotics, haptic devices for augmented reality systems, precision measurement, camera modules, data storage devices, projectors, optics, optoelectronics, and medical and healthcare engineering, among others. The development of multi-DOF actuators is expected to expand substantially in the years and decades ahead. To highlight the current status and perspectives, this Special Issue invites contributions, including research and review articles, that cover all aspects of multi-DOF actuators, including, but not limited to: novel designs of multi-DOF actuators; theory, modeling, and control; simulation; experimental methodology; multi-degree-of-freedom movement; manufacturing and processing; 3D printing for multi-DOF actuators; and applications in research, industry, and education.