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## **Advances in Smart Materials-Based Actuators**

Guest Editors:

## Prof. Dr. Miaolei Zhou

College of Communication Engineering, Jilin University, Changchun 130022, China

## Dr. Yewei Yu

College of Communication Engineering, Jilin University, Changchun 130022, China

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## **Message from the Guest Editors**

Dear Colleagues,

Smart material-based actuators possess the advantages of high precision, high stability, and high reliability, and are thus widely employed in the field of advanced equipment manufacturing. Smart material-based actuators, such as piezoelectric actuators, shape memory alloy-based actuators, and dielectric elastomer actuators, facilitating the development of robotics, bio-operation devices, and other fields. With the aim of enabling these actuators to be effective, new challenges are presented to the researchers; these include creating an actuator design that is applicable to multi-application scenarios (ultraprecision resolution, large stroke, etc.); establishing modes to describe actuator characteristics; and designing intelligent control methods to achieve the high-quality control performance of smart material actuators, among others

The aim of this Special Issue is to collect theoretical results related to actuator fabrication, modeling and control, as well as experimental studies related to their practical applications.



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