



## Smart Materials for Smart Actuators and Semi-active Components

Guest Editors:

**Dr. Takehito Kikuchi**

Department of Mechatronics,  
Faculty of Engineering, Oita  
University, Oita, Japan

**Dr. Saiful Amri Mazlan**

1. Malaysia-Japan International  
Institute of Technology, Universiti  
Teknologi Malaysia, Kuala  
Lumpur, Malaysia  
2. International Center, Tokyo  
City University, Setagaya, Tokyo,  
Japan

### Message from the Guest Editors

The development of smart actuators has helped us to achieve higher accuracy in robotic applications. One of the main components of smart actuators is smart materials which can measure physical quantities such as force, displacement, and heat before converting into electrical signals. Materials including magnetorheological, electrorheological, piezoelectric, shape memory alloys, liquid crystals, and dielectric elastomers respond to external stimuli by changing their properties that can be controlled. This Special Issue invites papers on recent advances in smart materials and their application in robotics.

Deadline for manuscript  
submissions:

**closed (28 February 2023)**

