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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

 Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
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 magnetorheologiocal, 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)



