Special Issue

Actuators for Haptic Feedback Applications

Message from the Guest Editors

Nowadays, actuators for haptic feedback applications have attracted researchers' attention due to their great market potential. Commercially, mobile phones, touch displays, and gaming accessories have broadly employed actuators to provide users with a better experience in terms of users' sensory perceptions through haptic feedback. Common haptic actuators include the types of eccentric rotating mass (ERM) motors, linear resonant actuators (LRAs), and piezo haptic actuators. In addition to these, advanced soft materials have displayed promising performances in terms of haptic actuator development. Utilizing haptic actuators has aroused a lot of interest in a variety of highly valued applications, especially in educating doctors on complicated surgeries or engineers on running expensive machinery. This Special Issue will address the research on haptic actuators, from fundamental studies to versatile applications. Original research and review articles are encouraged

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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