Special Issue

Advances of Compliant Mechanisms in Sensors for Young Researchers

Message from the Guest Editors

As popular precision and robotic devices, compliant mechanisms deliver displacement, force and energy by elastic deformation of the materials. Such mechanisms generate smooth motion without the issues of wear, backlash, friction, clearance and are ease of monolithic manufacturing in contrast to traditional rigid-body mechanisms. Motion transmission is realized by flexure hinges, flexible beams, diaphragms, and other soft materials, etc. Targeting different engineering tasks, compliant mechanisms have been applied extensively in both actuator and sensor scenarios, ranging from macro-scale, to micro-scale and to nano-scale. Exemplary applications include micro electro mechanical systems (MEMS), ultra-precision manufacturing, micro/nano-manipulation, precision automatic assembly, medical instruments, to name a few.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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