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.

Guest Editors

Dr. Guangbo Hao

Dr. Fulei Ma

Dr. Mingxiang Ling

Dr. Haiyang Li

Deadline for manuscript submissions

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/ sensors





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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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