Special Issue

Precision Mechatronics: Design, Control and Applications

Message from the Guest Editor

Precision mechatronics consists of synergistic interaction among mechanical, electronic, control, and computing engineering disciplines with accuracy of micrometer or sub-nanometer scale. There are currently some emerging technologies in this field, such as novel mechanical design, ultra-precise sensing, new actuation, and advanced and intelligent control. Accordingly, this Special Issue seeks to showcase research papers, and review articles related with precision mechatronics that focus on but are not limited to:

- Precision mechanical design, such as flexible parallel mechanisms;
- Precision sensing, such as capacitive sensors and laser interferometers;
- Precision actuation, such as piezoelectric actuators, voice coil motors, shape memory alloy actuators;
- Precision control, such as advanced control and intelligent control;
- Applications of precision mechatronics in robotics, optical systems, scanning probe microscopy (SFM), semiconductor manufacturing, biomedical engineering, and cell manipulation.

Guest Editor

Dr. Pengzhi Li

School of Computing and Engineering, University of Gloucestershire, Cheltenham GL502RH, UK

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

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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