



Actuator Design and Control Strategy Development for Vibration Control in Precision Engineering

Guest Editors:

Prof. Dr. André Preumont

Dr. Bilal Mokrani

Dr. Kainan Wang

Deadline for manuscript
submissions:

closed (15 December 2023)

Message from the Guest Editors

Dear Colleagues,

Vibration control is essential for most engineering applications, such as civil and aerospace structures, astronomical and physics instruments, and ultra-precise industrial machines. For many years, smart materials, such as piezoelectric/electrostrictive materials, magnetostrictive materials, shape memory alloys, and piezoelectric/electrostrictive materials, have been used as sensors and actuators in several applications such as precision motion control, active vibration damping, and shock absorption. The research into the applications of actuator design and control strategy development for vibration control is constantly being updated.

In this Special Issue, we aim to collect a coherent ensemble of original articles and reviews emphasizing the following topics:

- Design of active actuators in damping and isolation applications;
- Vibration control of aerospace structures;
- Vibration damping and isolation in precision machining;
- Novel control strategy design for active vibration suppression;
- Application of smart materials in vibration control;
- Active vibration control in presence of structural uncertainties.

