Special Issue

Actuators and Dampers for Vibration Control: Damping and Isolation Applications - Volume II

Message from the Guest Editors

Low vibration levels are required in multiple and diverse applications. These applications can be viewed from the vibration and isolation damping point of view. Vibration damping may be required in several applications, such as precise positioning or trajectory tracking in applications such as robotics or nanopositioners. Vibration damping is also important to solve vibration serviceability issues in civil structures. Contributions from all fields related to actuators and dampers are welcome in this Special Issue, particularly the following:

- Passive, semi-active, and active actuators used in damping and isolation applications;
- Practical implementation issues of actuators in damping and isolation applications;
- Optimization of isolation and damping vibration systems;
- Vibration control in civil structures induced by wind, earthquakes, and humans;
- Trajectory tracking in nanopositioner applications;
- Robotics applications with flexibility in links or joints;
- Vibration isolation in aerospace and defense applications;
- Vibration isolation in extremely low vibration level applications

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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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