

## Special Issue

# Vibration Control and Structure Health Monitoring

### Message from the Guest Editors

Vibration is a common phenomenon when a structure is exposed to mechanical or environmental actions. It may cause great cost to lives and the economy. In order to reduce the adverse impact of vibration and understand the resulting damages, vibration control and structural health monitoring have become increasingly important. Although significant contributions have been made in this area, many challenges are still open for exploration. This Special Issue welcomes contributions addressing all aspects related to this area. As such, we solicit submissions of research papers dealing with, but not limited to, these themes:

- Theory and computational methods of vibration control,
- Materials and devices for vibration control,
- Tests and applications of vibration mitigation or isolation techniques,
- Development of structure health monitoring equipment,
- Damages detection and localization methods for structures,
- Data Sensing and processing in structure health monitoring,
- Safety diagnosis and assessment of structures,
- Interdisciplinary approaches and applications for structural health monitoring,
- Vibration analysis, tests and applications in relative fields.

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### Guest Editors

Prof. Dr. Zhao-Dong Xu

Prof. Dr. Siu-Siu Guo

Prof. Dr. Jinkoo Kim

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### Deadline for manuscript submissions

closed (30 June 2022)



## Actuators

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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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### Editors-in-Chief

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