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Vibration Control and Structure Health Monitoring

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closed (30 June 2022)

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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Special Issue