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# Advancing Engineering Technologies and Applications in Structural Dynamics and Vibrations

Guest Editors:

#### Dr. Kai Zhou

Department of Mechanical Engineering-Engineering Mechanics, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931, USA

#### Dr. Hongling Ye

Faculty of Materials and Manufacturing, Beijing University of Technology, Beijing 100124, China

### Dr. Qi Shuai

College of Mechanical and Vehicle Engineering, Chongqing University, 174 Shazheng Street, Shapingba District, Chongqing 400030. China

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## **Message from the Guest Editors**

This Special Issue of *Vibration* solicitates the novel research works that can circumvent current grand challenges and advance state-of-the-art technologies and applications in the field of structural dynamics and vibrations, including, but not limited to, the topics listed below:

- Advanced sensing for vibration measurement;
- Structural dynamics modeling and analysis;
- Vibration and wave-guided structural health monitoring and damage identification;
- Machinery fault diagnosis and prognosis, machinery predictive maintenance, and machinery remaining life forecast;
- Smart materials and structures;
- Active, passive, and hybrid vibration control;
- Power and energy harvesting of vibration systems;
- Uncertainty quantification in structural dynamics;
- System reliability analysis, and design optimization under uncertainties



