Special Issue

Energy Dissipation and Vibration Control: Modeling, Algorithm and Devices

Message from the Guest Editors

The study of vibrations and the control of vibrations has been a fundamental cornerstone of engineering. Problems related to vibrations are ubiquitous, from the study of fatigue of airplane wings in turbulent flow to the suppression of vibrations in subsea structures. The breadth of vibration engineering is matched by the depth of field. Numerous methods have been used to understand vibrations, and a wide range of devices have been developed to control vibrations. Many vibration control problems can be considered as a problem of energy dissipation and vibration damping. The problem encompasses multiple interdependent aspects of research and engineering. Thus, the scope and aims of this Special Issue are to receive and accumulate new knowledge about vibration control, especially for topics related to energy dissipation methods for vibration damping. Desired topics include but are not limited to vibration modeling, algorithms for active vibration control, passive damping methods, vibration damping devices, new materials for energy dissipation, etc.

Guest Editors

Prof. Dr. Steve C.S. Cai

Edwin B. and Norma S. McNeil Distinguished Professor, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, LA 70803, USA

Prof. Dr. Hong-Nan Li

Faculty of Infrastructure Engineering, Dalian University of Technology, Dalian 116024, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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