Technical Advances in Vibration Analysis: Modeling, Simulation and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue covers a broad range of topics, such as vibration control, vibration generation and propagation, the effects of vibration, condition monitoring and vibration testing, modeling, prediction and simulation of vibration, environmental and occupational vibration, and vibration attenuators, as well as biomechanics.

The Special Issue also addresses analytical, numerical, and experimental techniques for evaluating linear and non-linear vibration problems (including strong nonlinearity). It is primarily intended for academics, researchers, and professionals, as well as Ph.D. students, in various fields of the vibration of mechanical structures such as investigations on stability analysis, chaotic manifestations of vibrating systems, and computations of nonlinear amplitude and phase angle.

Special Issue

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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.

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