

Special Issue

Dynamics and Vibrations of Nonlinear Systems with Applications

Message from the Guest Editors

This Special Issue is dedicated to studies and research in the field of nonlinear dynamics and vibrations, taking into account the following: a) Non-linear vibrations and non-linear systems are the most common in nature, and linear ones are just a special case of the former; b) The solutions of nonlinear systems are bounded or not, periodic or not, or even chaotic; c) Non-linearities can originate from the expressions of masses, elastic constants, frictions, exciting forces, and their combinations or they can be systems where some of them differ on certain portions; d) The solutions are provided in analytical or numerical form (the most common situation). Papers must focus on the following research areas:

- Systems with nonlinear behavior;
- The control of nonlinear dynamics and vibrations;
- Methods to study the nonlinear systems;
- Chaotic motions;
- The solutions of nonlinear vibrations;
- Nonlinear vibrations transmitted to structures;
- The isolation of nonlinear vibrations;
- Comfort;
- Bounded and periodic dynamics.

Guest Editors

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About the Journal

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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