Special Issue

Advancements in Fluid-Structure Interaction Vibration Control Technology

Message from the Guest Editor

Fluid-structure interaction dynamics are among the core mechanical problems in the design, construction, and operation of major engineering works and equipment in many fields such as aviation, aerospace, shipbuilding, civil engineering, ocean engineering, petrochemical industry, and so on. As such, it has received extensive attention. The interaction between fluids and solids induces dynamic problems and structural vibrations, which not only affects the key performance of engineering equipment but may also cause structural damage and failure, resulting in huge losses. This Special Issue aims to discover the latest progress and research in fluid-structure interaction vibration control. The topics of interest include, but are not limited to, the following:

- FSI vibration and noise characteristic analysis and control methods;
- Key mechanical issue in fluid-structure interactions;
- Nonlinear dynamics;
- Underwater vehicle dynamics;
- Flow- and vortex-induced vibration.

Guest Editor

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.
Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.
There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

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