Topical Collection

Structural Dynamics and Aeroelasticity

Message from the Collection Editors

Aeroelasticity is a well-known research field that investigates phenomena emerging due to the interaction between fluids and elastic bodies, and more precisely among aerodynamic, inertial and elastic forces. While the typical application of aeroelasticity is in the branch of aircraft engineering, aeroelastic issues are also of concern in civil engineering, such as slender buildings, suspension bridges and electric lines; transport engineering, such as cars and ships; or power engineering, such as compressors and turbines. We welcome the original articles and review papers on analytical, numerical, and experimental methodologies related to the topics:

- Stability and response problems related to the fluid–structure interaction of flexible bodies;
- Time-domain, linear and nonlinear aeroelasticity;
- CFD-based aeroelasticity;
- Dynamic loads;
- Experimental techniques in aeroelasticity and structural dynamics;
- Active aeroelastic control and aeroelasticity of adaptive/morphing structures;
- Aeroelasticity of rotary wing aircraft;
- Aeroelasticity and structural dynamics modelling and optimization.

Collection Editors

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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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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.

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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