

Special Issue

Engineering Applications of Finite Element Method: Progress and Challenges

Message from the Guest Editors

The FEM started as a promising strategy for modeling several mechanical applications. We are pleased to invite researchers to submit manuscripts to this collection that cover aspects related to the FEA, including, but not limited to:

- FEA in mechanical engineering: structural analysis, modal analysis, solid mechanics, fatigue and fracture mechanics, thermal analysis;
- FEA in marine engineering: structural analysis and verification, vibration and noise, radiated noise, exhaust gas noise, thermal analysis;
- FEA in materials engineering: material characterization;
- FEA in aerospace engineering: aerodynamics, mode shapes, structural analysis, response analysis;
- FEA in chemical engineering: exhaust gas characterization; chemical reactions in treatment system modeling;
- FEA in electronics engineering: grid analysis, electromagnetics, motor dynamic analysis, analysis for electronic equipment;
- FEM applied to thermal and fluid analyses and to fluid–structure interaction
- Optimization process and machine learning applications in FEA.

Guest Editors

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Deadline for manuscript submissions

closed (30 March 2024)



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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

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