



Computational Mechanics in Design and Optimization of Structures and Advanced Materials

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Message from the Guest Editors

In this Special Issue on “Computational Mechanics in the Design and Optimization of Structures and Advanced Materials”, we invite researchers in the field of computational mechanics to present new and innovative uses of computational modelling in the study and analysis of component and structural design. We also invite studies that deal with the use of computational models in the study of advanced material behavior or performance. Papers accepted in this Special Issue are expected to contain original ideas and potential solutions available for using computational methods to resolve real current engineering problems.

The topics covered include but are not limited to the following:

- Coupled field problems (thermomechanics, FSI);
- Computational biomechanics;
- Computational metal forming;
- Computational fracture mechanics;
- Computational material science;
- Structure optimization.





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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.

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