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Advanced Theoretical and Computational Methods for Complex Materials and Structures

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Deadline for manuscript submissions:

closed (31 January 2020)

Message from the Guest Editors

Dear Colleagues,

In recent decades, composite materials have been increasingly applied in many engineering applications, e.g., aerospace components, aircrafts, boat hulls and sails, car bodies, long span roofs, as well as biomedical prostheses, electronic devices, and drones. Accordingly, this Special Issue aims at gathering together experts and young researchers in modeling heterogeneous materials and structures at different scales.

Keywords:

Adhesion

Advanced computational methods

Auxetic materials

Buckling behavior

Carbon nanotubes

Complex materials

Composite beams, plates, and shells

Constitutive models

Damage, Delamination, Dynamics

Fracture mechanics

Functionally graded materials

Homogenization techniques

Metamaterials

Nanostructures

Smart materials

Statics

Theoretical, numerical, and experimental strategies









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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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