



Recent Advances in Theoretical and Computational Modeling of Composite Materials and Structures II

Guest Editors:

Prof. Dr. Francesco Tornabene

Department of Innovation
Engineering, University of
Salento, 73100 Lecce, Italy

Prof. Dr. Rossana Dimitri

Department of Innovation
Engineering, University of
Salento, 73100 Lecce, Italy

Deadline for manuscript
submissions:

closed (20 August 2023)

Message from the Guest Editors

Studies on fiber-reinforced composites and laminates, functionally graded materials (FGMs), carbon nanotubes (CNTs), graphene nanoplatelets, SMART constituents, as well as innovative and advanced classes of composites, are welcome. Some examples could be represented by large stroke SMART actuators, piezoelectric sensors, shape memory alloys, magnetostrictive and electrostrictive materials, as well as auxetic components and angle-tow laminates. These constituents could be included in the lamination schemes of SMART structures for the successful control and monitoring of their vibrational behavior and/or static deflection.

Studies on classical and high-performance advanced theories and multiscale approaches are welcome, along with the development of enhanced nonlocal damage and fracturing models that are able to capture the formation and propagation of internal cracks related to the heterogeneity of complex materials and interfaces.

Prof. Dr. Francesco Tornabene

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
X@Applsci