

## Special Issue

# Numerical Modeling and Mechanical Properties Analysis for Metallic and Composite Materials and Structures: 2nd Edition

### Message from the Guest Editor

Predicting how structures will behave when submitted to different load types is a constant need in the wide area of structural engineering. Achieving these answers may involve a heavy workload because of structures', components', or systems' intrinsic functional complexities, increasing material sophistication, and the potential engineering work behind them. To deal with these briefly summarised challenges, it is crucial to develop numerical models that are adequate for the scale of the problem and the level of detail required. Empowering these models with detailed material characterisation is also essential for optimised structural performance. This is the framework of this Special Issue in *Applied Sciences*, which adopts a wide-scope approach to advanced composite and/or metallic materials, including, for example, the performance characterization of functionally graded materials and structures, auxetic materials, and sandwich structures, while not excluding other relevant possibilities. If your work fits this scope, we strongly encourage you to submit your manuscript. We look forward to receiving insightful contributions.

### Guest Editor

Dr. Maria Amélia Ramos Loja

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### Deadline for manuscript submissions

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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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### Editor-in-Chief

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