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# Computational Mechanics and Finite Element Method: Theory and Applications

Guest Editor:

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Deadline for manuscript submissions:

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# **Message from the Guest Editor**

Computational mechanics is a discipline that combines principles from engineering mechanics and computer science to study and analyze the behavior of complex structures and materials Finite element methods (FEM) serve as a fundamental tool in computational mechanics, providing a systematic approach to discretize and solve the governing equations of a physical system. application of computational mechanics has revolutionized the design and analysis of structures. addition, finite element analysis enables the accurate modeling of complex geometries, material properties, and boundary conditions, facilitating the study of structural integrity, mechanical response, and failure mechanisms.

Hence, this Special Issue encourages submissions that apply the FEM in the various fields of computational mechanics. Suggested topics include, but are not limited to, numerical analysis, structural mechanics, structures dynamics, mechanics of materials, fluid mechanics, thermal sciences, computer-aided engineering, optimization, discretization, and mesh generation.











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## **Editor-in-Chief**

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# Message from the Editor-in-Chief

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