Special Issue

Mathematical Models in Mechanics and Engineering

Message from the Guest Editor

Mathematical models are involved in various scientific developments, and more specifically in structural and mechanical engineering projects. This Special Issue entitled "Mathematical Models in Mechanics and Engineering" aims to showcase the latest scientific advances and practical applications using computational techniques in various fields of mechanics and civil engineering. Topics of interest include, but are not limited to, the following:

- Advanced numerical models for mechanical and engineering problems;
- Applying mathematical models in mechanics and engineering;
- Boundary element methods in computational mechanics;
- Differential equations applied to engineering problems;
- Modeling and numerical experiments in mechanical and civil engineering;
- Real and complex analysis of mechanical and engineering problems;
- Computational solutions for problems of coupled mechanical systems;
- Optimization models for engineering problems;
- Deep machine learning applications in computational mechanics;
- Structural dynamics and vibration analysis applied to engineering problems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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