

Special Issue

Mathematical Modeling and Numerical Simulation

Message from the Guest Editor

The Special Issue “Mathematical Modeling and Numerical Simulation” is dedicated to investigating the cutting-edge developments and innovative algorithms in this field, sorting out their theoretical foundations, methodological innovations, and interdisciplinary applications. The topics include, but are not limited to, numerical methods for simulation and analysis, model verification and uncertainty quantification, computational fluid dynamics and structural analysis, model order reduction, optimization and control theory, multi-scale and multi-physics simulations, and high-performance computing. Through comprehensive and in-depth research articles, we emphasize the significance of modeling and simulation in solving complex scientific and engineering problems, highlighting their role in promoting technological progress. The purpose of this Special Issue is to facilitate academic exchange, spark creativity, and provide a platform for researchers to showcase their achievements.

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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Prof. Dr. Francisco Chiclana

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