

Special Issue

Mathematical Modeling and Numerical Simulation of Geomechanics

Message from the Guest Editors

In the past few decades, the use of state-of-the art mathematical and numerical models in the field of geomechanics has become a common approach, attracting researchers from different scientific fields. It is well recognized that the numerical and analytical assessment of nonlinear geomechanical problems along with the variability of the properties and characteristics of the geomaterials require solutions involving sophisticated mathematical models and numerical algorithms.... The key objective of this Special Issue is to collect and disseminate the latest developments in application to geomechanics of advanced mathematical modeling and numerical simulation techniques to enhance the quality of predictions by reducing the numerical error as well as model uncertainties. We cordially invite you to submit to this Special Issue of the Journal of *Mathematics* your high-quality manuscripts on mathematical and numerical modeling in geomechanics...

Guest Editors

Prof. Dr. Maria Datcheva

Dr. Arash Alimardani Lavasan

Prof. Dr. Torsten Wichtmann

Deadline for manuscript submissions

closed (1 September 2021)



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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).