

# Special Issue

## Numerical Modeling and Simulation in Engineering Sciences

### Message from the Guest Editor

This Special Issue focuses on the use of numerical simulation and mathematical models applied to engineering sciences, with emphasis on recent advances in numerical techniques and their application in industrial or academic applications. We are interested in papers addressing topics ranging from the novel application of existing mathematical tools to the development of novel numerical schemes to solve existing problems. This includes, but is not limited to, the following topics: (a) the use of standard numerical tools (e.g., finite difference, finite volume, finite element, meshless methods); (b) new numerical methodologies, including their validation with benchmarking cases; (c) high-performance computing, including new parallel computing algorithms; (d) the correct and effective modelling of initial and boundary conditions; (e) different types of balance equations in engineering; (f) mathematical modelling of multiphysics phenomena. Research articles, reviews papers and short communications are also invited.

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### Guest Editor

Dr. Pablo Druetta

Faculty of Science and Engineering, University of Groningen, 9747 AG Groningen, The Netherlands

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### Deadline for manuscript submissions

closed (30 June 2024)



## Mathematics

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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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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
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