# **Special Issue**

# Numerical Modeling and Simulation in Geomechanics

## Message from the Guest Editors

The advent of high-speed digital computers and the development of new theories have significantly changed the professional approach of engineers. Many computational tools in the form of commercial or freeaccess codes based on these new theories have been developed by researchers and subsequently made available to professional engineers. Numerical resolution of many complex problems has become a routine task in engineering design offices. It would be useful to inform the engineering community at regular intervals on the latest developments of such numerical methods and tools. This Special Issue focuses on the modelling and simulation of coupled problems in geomechanics concerning the general behaviour of geomaterials and geo-structures, where two or more physical phenomena simultaneously intervene: thermal, mechanical, chemical, hydraulic, osmotic, capillarity, phase-change, etc. Papers are invited from those who work on the development of new numerical methods or on the application of existing tools and methods to analyse challenging cases. We look forward to receiving your submissions.

### **Guest Editors**

Dr. Kwai Kwan (Henry) Wong

Prof. Yung-Ming Cheng

Dr. Chin Leo

Dr. Xiaoqin Lei

## Deadline for manuscript submissions

closed (20 January 2025)



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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

mdpi.com/journal/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.

### Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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