

## Special Issue

# Advances in Computational Geomechanics

### Message from the Guest Editors

Computations in geomechanics have evolved rapidly, and this Special Issue aims to capture some of the recent developments. There is no doubt that the advent of the digital computer, and more recently the Internet and artificial intelligence, have led to a proliferation of interesting and innovative computational concepts, methods, algorithms and applications related to the solving of problems dealing with the mechanics of geomaterials, namely, soils, rocks, grains and snow. We invite contributions from researchers and practitioners for this Special Issue in the form of high quality original research articles, reviews and technical notes based on their recent work on computational geomechanics. Topics of interest appropriate for this issue include constitutive modelling, limit analysis, multi-scale modelling, numerical modelling, fracture mechanics, artificial intelligence, stochastic methods, plasticity, analytical and semi-analytical methods, back analysis, optimisation, and failure analysis as applied to problems in geomechanics.

---

### Guest Editors

Dr. Chin Leo

Dr. Kwai Kwan (Henry) Wong

Prof. Dr. Yung-ming Cheng

---

### Deadline for manuscript submissions

closed (30 November 2018)



## Geosciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/si/14195](https://mdpi.com/si/14195)

*Geosciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[geosciences@mdpi.com](mailto:geosciences@mdpi.com)

[mdpi.com/journal/  
geosciences](https://mdpi.com/journal/geosciences)





# Geosciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/journal/  
geosciences](https://mdpi.com/journal/geosciences)



## About the Journal

### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

---

### Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
Fairbanks, AK, USA

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, Astrophysics Data System, and other databases.

#### Journal Rank:

CiteScore - Q1 (General Earth and Planetary Sciences)