



an Open Access Journal by MDPI

Climate Change and Geotechnical Engineering

Guest Editors:

Dr. Guido Rianna

Regional Models and Geo-Hydrological Impacts (REMHI) Division, CMCC Foundation Euro-Mediterranean Center on Climate Change, 73100 Lecce, Italy

Dr. Alfredo Reder

Regional Models and Geo-Hydrological Impacts (REMHI) Division, CMCC Foundation Euro-Mediterranean Center on Climate Change, 73100 Lecce, Italy

Dr. Mary Antonette Beroya-Eitner

Institute for Geotechnics, Department of Civil and Environmental Engineering Sciences, Technische Universität Darmstadt, 64289 Darmstadt, Germany

Deadline for manuscript submissions: closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

During the 56th Rankine Lecture "Geotechnics, energy and climate change" by Prof. Jardine, it was stated how geotechnical engineering has matured sufficiently to contribute to resolving some of society's grand challenges. Climate change represents one of these substantial challenges, recognized worldwide, that is having the greatest impact on our way of life and well-being.

In this view, geotechnical engineering can play a key role in terms of the adaptation of earth structures and slopes to climate changes. Specifically, there is an increasing need to quantify the impacts of more severe and frequent extreme events on the short- and long-term behaviour of earth structures and response of natural/engineered slopes. However, despite there being several large-scale studies devoted to investigating various aspects of climate change, a clear gap in the state of knowledge still exists with reference to the analysis of the resilience of geotechnical structures, and natural and engineered slopes to changes in climatic trends.

Specialsue



mdpi.com/si/86468





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. John C. Eichelberger

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

Message from the Editor-in-Chief

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

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)

Contact Us

Geosciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/geosciences geosciences@mdpi.com X@Geosciences_OA