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Call for papers

Special Issue

Geotechnical Engineering in the Context of Climate Change

Climate change and rapid infrastructure development are creating new challenges for geotechnical engineering. This Special Issue aims to showcase innovative research and engineering solutions addressing resilience, sustainability, and energy transition in geotechnical systems. The contributions encompass a wide range of contemporary themes, including emerging geotechnical applications in the context of climate change, geothermal engineering, climate-resilient geotechnical structures and infrastructures, earthworks involving slopes and embankments, soil–plant–atmosphere interactions, major infrastructure projects designed to address or mitigate climate impacts, such as large dams, transport links and underground works, offshore geotechnics, as well as net-zero solutions and approaches to reducing environmental impacts.

Authors are invited to submit original research through the Soils and Rocks online submission system Guidelines for Authors | Soils and Rocks, identifying the title of this Special Issue in the Cover Letter.

Invited editors

David Taborda
Miguel Angel Manica
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Jie Zhang

Soils and Rocks editors

Daniel Dias
Gustavo Pereira
Ana Vieira

Relevant topics

- Climate-Resilient Geotechnical Structures
- Geothermal Engineering
- Earthworks, Slopes and Embankments
- Major Infrastructure Projects: Large Dams, Transport Links and Tunnelling Works
- Offshore Geotechnics
- Carbon-aware Geotechnical Design
- Nature-based Solutions
- Soil-Plant-Atmosphere Interaction
- Risk Quantification and Reliability

Important dates

- Deadline for full paper submission: November 15th
- Papers will be published online as soon as they are accepted

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More information:
avieira@soilsandrocks.com