

Special Issue

Geotechnical Engineering towards Sustainability

Message from the Guest Editor

While the application of geotechnical research is practical in nature, the improvement of fundamental knowledge of geotechnical engineering and its potential risk or impact when implemented in field applications are key aspects of sustainability in geotechnical engineering. The development of laboratory/field experiments and numerical techniques will improve the sustainable design of geotechnical and geoenvironmental infrastructure. Furthermore, efforts to ensure sustainability in geotechnical engineering should include consideration of reliability and resilience aspects because of the stochastic nature of geomaterials with high uncertainty. Quantifying the uncertainty of geotechnical properties or failure would enable reliability-based geotechnical design. Relevant topics in this Special Issue could include: Sustainable technologies in geotechnical engineering; Geomaterial characterization for sustainability; Bio-mediated and bio-inspired geotechnics; Environmentally-friendly ground improvement techniques; Reliability analysis in geotechnical engineering; Geotechnical cost-effective solutions.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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