Special Issue

Geotechnical and Geoenvironmental Engineering Approaches to Prevent Ground-Related Disasters

Message from the Guest Editors

Natural and artificial ground-related geological and environmental hazards (e.g., failures and pollution induced by seepage, deformation, and instability onground or underground that are associated with the human activities of excavation, tunnelling, embankment and foundation construction, dam construction, solid waste landfills, pollutant discharge, etc.) have led to significant casualties and property loss worldwide. They are further complicated by the uncertainties in natural property and construction workmanship. Given the limitations in budget and carbon emissions, the industry strives to strike a balance among rivaling factors, e.g., safety, investment, and carbon emissions. There is a great need for case studies and theoretical and numerical analyses covering the scope of geotechnical and geoenvironmental challenges and solutions from both the industrial and academic communities. This Special Issue aims to discuss more accurate and/or efficient approaches for the prediction, detection, sensing, evaluation, and control of natural and artificial geohazards. The research methodology includes experimental, analytical, numerical, and risk assessments.

Guest Editors

Dr. Yutao Pan

Prof. Dr. Qiujing Pan

Dr. Hui Xu

Deadline for manuscript submissions

closed (30 April 2023)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/118875

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

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Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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