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Advanced Sensing Technologies in Geotechnical Engineering

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

Predicting the behaviour of soil and rock during and after construction works or geo-hazards, such as earthquakes, is very complex and burdened with numerous uncertainties. Significant development in this field is evident in last decades with the monitoring methods taking advantages of modern sensor types such as piezoelectric sensors, optic fibers etc.

This Special Issue welcomes manuscripts dealing with various aspects of the innovative in-situ and remote sensing technologies in field of geotechnical engineering, geology, hydrogeology, environmental engineering, and geodesy, which enhance the knowledge and understanding of the soil and rock behaviour during and after construction works or geohazards. The papers focusing on theoretical and experimental aspects of terrestrial and aerial sensing, including instrumentation, data acquisition, data analysis, processing and interpretation are highly encouraged, especially those involving field case study implementations and validations.

- geotechnical monitoring
- in-situ monitoring of soil and rock
- remote sensing of soil and rock
- sensor-based instrumentation
- monitoring data analysis
- signal processing

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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