



Advanced Sensing Technologies in Geotechnical Engineering

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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





sensors



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Message from the Editor-in-Chief

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