

# Special Issue

## Geo-Sensing and Geo-Big Data

### Message from the Guest Editors

Fiber optic sensing can be turned into a 'nerve' to realize geo-sensing so as to mitigate geological and geotechnical disasters. Big data and artificial intelligence help to further realize from the perception to cognition of geoscience. This Special Issue plans to give an overview of the most recent advances in the field of geo-sensing based on fiber optic sensing technologies and the application of big data for opto-electronic monitoring. This Special Issue is aimed at providing selected contributions on advances in the theory, experimentation, and application of fiber optic sensing in geological and geotechnical engineering monitoring. Potential topics include, but are not limited to:

- Advances in sensors and sensing technologies
- Opto-electronic monitoring in geo-engineering
- Artificial intelligence algorithm in geological and geotechnical engineering monitoring;
- Geo-big data and risk assessment of geotechnical engineering monitoring;
- Intelligent monitoring and maintenance of long-distance transportation infrastructure;
- Intelligent real-time monitoring technology for linear engineering;
- Smart geotechnical and resilient city.

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### Guest Editors

Prof. Dr. Bin Shi

Dr. Gang Cheng

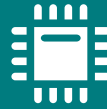
Dr. Jinghong Wu

Dr. Lei Gao

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### Deadline for manuscript submissions

closed (31 December 2023)



## Sensors

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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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### Editor-in-Chief

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