Ground Penetrating Radar (GPR): Theory, Methods and Applications

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Message from the Guest Editors

As a high-precision detection technology, ground penetrating radar (GPR) can provide non-destructive, high-resolution information in near-surface geophysics. From traditional civil engineering to glaciology, planetary exploration, and so on, GPR has been used in many applications. The diversity of sensing objects necessitates increased precision and efficiency in GPR data processing methods.

This Special Issue aims to report the latest methods of simulation, inversion, and data processing or the most recent applications of GPR in various fields. This provides a way to improve the precision and efficiency of traditional GPR methods and promotes the development of GPR applications.

We invite researchers to publish papers on novel aspects of advanced algorithms and GPR application. The topics include but are not restricted to:

- New techniques for numerical simulation of GPR with different physical quantities, scale domains, and resolutions.
- Advances in numerical development, data processing methodologies, and applications of artificial intelligence in GPR.
- Innovative cases of GPR in complex scenarios, including civil engineering, geotechnical engineering, glaciology, etc.

Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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