Advanced Ground-Penetrating Radar (GPR) Technologies and Applications

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Deadline for manuscript submissions:
28 November 2024

Message from the Guest Editors

Dear Colleagues,

GPR utilizes electromagnetic waves to detect subsurface structures and is a highly efficient shallow geophysical exploration technique. It relies on the differences in electrical parameters of underground media, and analyzes and deduces their structural and physical characteristics based on kinematic and kinetic features such as the amplitude, waveform, and frequency of the echo. Compared with other geophysical methods, GPR is fast and convenient, simple to operate, has a high detection resolution, and performs non-destructive detection. It is often used for fine inscriptions on underground structures and the detection and identification of targets, with a wide range of application scenarios, such as geological surveys, planetary exploration, archaeology, civil engineering and architecture, agriculture, environment, and security.

The topics of this Special Issue include, but are not limited to, the following:

- Data processing;
- Environment and agriculture;
- Modeling and inversion;
- Archeology;
- Earth and planetary applications;
- Civil engineering and geotechnical applications;
- City utility and security application

mdpi.com/si/205164

Special Issue

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Message from the Editor-in-Chief

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