

Special Issue

Ground Penetrating Radar: Novel Advances and Applications

Message from the Guest Editor

The research on ground penetrating radar (GPR) has become more and more attractive and a number of novel advances and applications have emerged. GPR is a radio frequency technology based on detection of the differences in the electromagnetic properties (dielectric constant, electrical conductivity, magnetic permeability) of different underground media. The electromagnetic wave emitted by the transmitting antenna propagates in the ground, scattered by geological bodies, and received by the receiving antenna. After analysis and imaging, the shape and distribution of the geological bodies can be judged. The applications of these instrumentation and methods include disease detection of tunnels, highways, dams, underground pipelines, and the development of life detecting devices and other non-contact detecting equipment, all of which have achieved considerable results. In this Special Issue, we are inviting you to share your latest research exploring novel advances and applications of GPR.

Guest Editor

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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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