Special Issue

Ground Penetrating Radar Applications in Civil Infrastructures

Message from the Guest Editors

Ground Penetrating Radar (GPR) is a non-destructive geophysical technology applied in many different fields to survey structures and soils in order to detect embedded objects. In recent decades, this technology has been applied in the assessment of buildings and other civil infrastructures, in a wide range of applications that include concrete-made, masonry and wooden structures. This Special Issue focuses on using GPR to solve difficulties related to a variety of civil infrastructure issues, considering the special difficulty of surveys in urban areas. The scope of this Special Issue includes, but is not limited to, the following topics:

- GPR technology in damage detection in structures;
- Automatic pattern recognition and AI applications to GPR surveys;
- GPR signal and data processing techniques: developments and examples;
- Case studies and applications in the assessment of bridges, pavements, roads, railways, tunnels, buildings, dams, buried pipes, retaining walls, cultural heritage and other civil structures;
- Analysis of capabilities and limitations of urban GPR surveys;
- Combination of GPR surveys with other NDT or destructive techniques.

Guest Editors

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Deadline for manuscript submissions

closed (25 March 2024)

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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