Special Issue

Application of Electromagnetic Prospecting in Civil and Environmental Engineering

Message from the Guest Editors

Many applications in civil and environmental engineering require indirect information about the soil or structure, either for exploration purposes or to monitor transient processes; this information is often derived from geophysical data. Non-invasive or minimally invasive electrical and electromagnetic sensing methods, among other techniques, have become particularly popular in these disciplines. We invite technical papers focusing on electric and electromagnetic data analysis using both physics-based and data-driven techniques and their applications to yield high-resolution resistivity structures for civil and environmental engineering. Topics of interest include, but are not limited to, the following:

- Electric and EM data processing, simulation, inversion, and interpretation
- Artificial intelligence, machine learning, and deep learning applications on electric and EM data analysis
- Integrated analysis and interpretation with other geoscientific data (e.g., seismic, potential field, rock physics, geochemistry, and outcrop measurements)
- Field case studies highlighting the value of information extracted from electric and EM data in civil and environmental engineering

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About the Journal

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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