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

Guest Editors

Prof. Dr. Haiyan Yang

School of Resources and Geosciences, China University of Mining and Technology, Xuzhou 221116, China

Dr. Shuanggui Hu

School of Resources and Geosciences, China University of Mining and Technology, Xuzhou 221116, China

Deadline for manuscript submissions

20 March 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/225941

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)