Special Issue

Electromagnetic Detection Instruments and Signal Processing

Message from the Guest Editors

Electromagnetic instrument systems are the foundation of deep mineral resources exploration, and the development of high-precision electromagnetic instruments is of great significance. Especially with the rapid progress of modern physics, electronic science, and computer technology, electromagnetic prospecting instruments are developing towards automation and intelligence. At the same time, the electromagnetic detection signal processing method integrates the latest artificial intelligence, deep learning, and machine learning methods, which greatly improves the detection accuracy. In this Special Issue, we seek high-quality submissions of original research articles regarding all aspects related to electromagnetic sounding instruments and signal processing. We welcome both theoretical and application papers of high technical standards across various disciplines, thus facilitating an awareness of techniques and methods in one area that may apply to others. Topics of interest include but are not limited to:

- EM instrument design;
- Transmitting waveform and control;
- Reciever technology;
- Electromagnetic sensor;
- Signal-processing algorithms;
- Ground-penetrating radar.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2024)

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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

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