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Electromagnetic Sensing and Its Applications

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Deadline for manuscript submissions:

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Message from the Guest Editors

Based on the interaction between materials and electromagnetic fields/waves, the electromagnetic sensing technique is able to provide physical insight into the integrity and properties of materials without causing damage. EM sensing facilitates advancements across a wide range of scientific, industrial, and medical domains and addresses challenges in many application fields such as aerospace, rail, oil, and gas, geophysical exploration, advanced manufacturing, etc.

Great efforts have also been made to improve the measurement accuracy, speed, and resolution through optimization of the sensing system and advanced manufacturing.

This Special Issue aims to report recent advances in EM sensing and welcome contributions from colleagues working in this field. The potential topics include but not limited to:

- New and emerging electromagnetic sensing principles, sensors and systems;
- Electromagnetic sensors design and optimization;
- Material property evaluation;
- Defect detection and imaging;
- Sensing system development;
- Forward and inverse problems;
- Deep learning enhanced sensing and its applications.





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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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