

Special Issue

Computational Electromagnetics in Remote Sensing: Wave Propagation and Scattering in Disordered Media

Message from the Guest Editors

This comprehensive Special Issue is intended mainly to cover remote sensing of objects in disordered media, including advanced wave propagation and scattering topics, as well as computational methods for waves in random media and rough surfaces. These topics have a domain of implications on the design and manufacture approaches of many civil and military systems that emit radiation to fulfill their operation efficiently. The primary focus of this issue is on realistic models of practical applications in radio wave propagation, remote sensing, optics, and scattering in free space and inhomogeneous random media, such as turbulence, ocean, rain, fog, and composite materials. Studying the effects of these media on scattering waves would essentially enhance the understanding of the behavior of wave measurements such as RCS (monostatic and bistatic) and backscattering enhancement to improve the functional capability of considered systems. Novel techniques that solve scattering problems, in addition to analytical and numerical models describing complex media, are of particular interest.

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2023)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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