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

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Deadline for manuscript submissions:

closed (20 February 2023)

Message from the Guest Editors

Dear Colleagues,

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.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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