Special Issue

Modern Mathematical Theories in Electromagnetism: Fractals, Wavelets and Fractional Operators

Message from the Guest Editor

In this Special Issue, we invite and welcome review, expository, and original papers dealing with recent advances in the application of fractal geometry, wavelet analysis, and fractional calculus in electromagnetism. From a more general point of view, we also invite all theoretical and practical investigations in physics and engineering focused on this topic. The main topics of this Special Issue include (but are not limited to) the following:

- Wavelet electromagnetism.
- Scattering.
- Fractal antennae.
- Fractional electromagnetism.
- Fractal-wavelet models and electromagnetic radiation.
- Fractional Laplacians in electromagnetism.
- Fractional PDEs in electromagnetism.
- Geometrical configurations in electromagnetic problems.
- Fractional calculus in remote sensing.
 Dr. Waldo Arriagada

Guest Editor

Dr. Emanuel Guariglia

School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, 88 Daxue Rd, Ouhai, Wenzhou 325060, China

Deadline for manuscript submissions

closed (31 March 2023)



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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Carlo Cattani

Engineering School (DEIM), University of Tuscia, Largo dell'Università, 01100 Viterbo, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q1 (Mathematics, Interdisciplinary Applications) / CiteScore - Q1 (Analysis)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).

