Wavelets, Fractals and Information Theory IV

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Wavelet analysis, fractals, fractional order operators, and nonlinear methods for the solution of nonlinear, irregular problems are playing an increasing role in science, engineering applications, and information theory. Wavelet and fractals are the most suitable and efficient methods to analyze irregular shapes and signals, complex systems, localized functions, singularities and singular operators, non-differentiable functions, and, in general, nonlinear and singular problems. Nonlinearity and nonregularity usually characterize the complexity of a problem, thus representing the most studied features to approach a solution to complex problems.

This Special Issue will also be an opportunity to extend the research fields of several interdisciplinary fields, such as image processing, the theory of differential/integral equations, number theory and special functions, generalized multiresolution analysis, and entropy as a measure in all aspects of the theoretical and practical studies of mathematics, physics, and engineering. More information about our SI: https://www.mdpi.com/journal/entropy/special_issues/wavelets_

Guest Editors

Prof. Dr. Carlo Cattani

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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