

Special Issue

Stochastic Analysis of Random Field Models and Disordered Systems

Message from the Guest Editor

The special issue seeks to advance the mathematical, computational, and physical understanding of these stochastic systems. We particularly encourage submissions that offer **rigorous results, scaling theories, and probabilistic frameworks** that explain universality, fluctuations, and rare events in disordered media. We also welcome **simulation-based or hybrid analytical-numerical studies** that investigate dynamics in classic systems like the random field Ising model, spin glasses, and percolation-like structures. This collection aims to foster dialogue across different disciplines—linking **probability theory, statistical physics, and computational science**. The goal is to highlight the rich interplay between stochastic analysis and the phenomenology of disordered systems, providing both foundational advances and novel applications. Ultimately, the issue will be a high-quality collection of articles reflecting recent progress in this field, welcoming both rigorous mathematical results and innovative computational and interdisciplinary approaches that illuminate the universal mechanisms of disordered media.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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Prof. Dr. Francisco Chiclana

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).