

Special Issue

Complex System Dynamics and Image Processing

Message from the Guest Editor

The intersection of complex system dynamics and image processing represents a vibrant and expansive research domain within mathematics, attracting growing interest from disciplines such as system science, applied mathematics, statistics, theoretical physics, and computer science. Complex system dynamics and image processing drive advancements in pattern recognition, anomaly detection, and feature extraction, thereby propelling fields like medical diagnosis, remote sensing, and computer vision forward. This Special Issue invites papers showcasing novel theoretical contributions across diverse realms of complex system dynamical analysis, including chaos, memristor dynamics, cellular automata, self-organizing nonlinear systems, and complex network dynamics, as well as various facets of image processing, including image encryption, steganography, watermarking, segmentation, compression, and reconstruction. Submissions that explore the synergies between image processing with complexity and dynamics are also welcomed. Review articles will also be considered.

Guest Editor

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Deadline for manuscript submissions

30 April 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/202591

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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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