Special Issue

Data Science and Complex Systems

Message from the Guest Editor

The convergence of data science and complex systems has become a driving force in modern scientific inquiry, offering powerful tools to model, predict, and understand intricate phenomena across diverse disciplines. This Special Issue of *Mathematics* explores the mathematical foundations, computational methods, and innovative algorithms that shape these fields, with a strong emphasis on rigorous theoretical frameworks and scalable solutions. From biological networks to socio-technological infrastructures, complex systems exhibit nonlinear dynamics, emergent behaviors, and high-dimensional interactions that require advanced mathematical approaches. Simultaneously, the rapid growth of data demands novel algorithms for efficient analysis, optimization, and uncertainty quantification. This Special Issue seeks contributions that bridge these domains, positioning mathematical computing as a key enabler of scientific progress.

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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