

Special Issue

Complex Systems Modelling, Data Analysis, and Machine Learning with Applications

Message from the Guest Editor

The Special Issue on “Complex Systems Modelling, Data Analysis, and Machine Learning with Applications” aims to provide a platform for recent findings in the field of complex systems research, with a particular emphasis on methodological advances and real-world implementations. Researchers and practitioners are encouraged to submit research articles, case studies, and review papers that contribute novel methodologies, theoretical insights, or practical applications in this multidisciplinary field. For this Special Issue, topics of interest include, but are not limited to, the following:

- Big data analytics for complex systems;
- Time series analysis and dynamical systems;
- Optimization and control techniques for complex system;
- Progression prediction and monitoring in complex systems;
- Agent-based modelling and simulations;
- Multi-scale and hierarchical modelling approaches;
- Anomaly detection and outlier analysis in complex systems;
- Transfer learning and domain adaptation in complex systems.

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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