

Special Issue

Machine Learning in Computational Complex Systems

Message from the Guest Editor

Machine learning has become essential for studying and managing computational complex systems, characterized by intricate, interdependent components and unpredictable behaviors. These systems span diverse fields, including biological networks, social systems, power models, and engineering infrastructures. By integrating machine learning, the modeling, analysis, and optimization of these systems can be improved, uncovering patterns and relationships that traditional methods may overlook. Advancements in machine learning are paving the way for more sophisticated approaches to managing and optimizing complex systems, enhancing their robustness, scalability, and adaptability in the face of growing complexity and uncertainty. Therefore, we are organizing this Special Issue to stimulate researchers' creativity and provide a platform for innovative ideas.

- computational complex systems
- machine learning
- distributed control and optimization
- robust optimization and privacy protection in computational complex systems
- time series analysis in computational complex systems
- applications of computational complex systems

Guest Editor

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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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