Recent Trends in Modelling of Complex Systems and Its Applications

Guest Editor:

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Message from the Guest Editor

Constant shifts in scientific paradigms are a natural process related to scientific progress. The first paradigm of Greek philosophy was a giant step for humans toward understanding of the surrounding reality. Since then, many other paradigms have become available in our common history and have finally led us to the theory of complex systems. According to Aristotle's rule, the complex systems are a whole which is more than the sum of its parts. Since the 1980s, there have been many important discoveries in the field of complex systems. They have helped us to better understand the surrounding reality which, every day, becomes more and more complex.

In this Special Issue, submissions are welcome for research papers presenting recent trends, new theoretical results, models and algorithms, structural investigations, experiments as well as new applications in modeling of complex systems and their applications in various fields of research, such as applied mathematics, engineering, computer science, nonlinear dynamics, networks, economy, and physics, emphasizing possible directions for future research.

Special Issue

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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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