

Special Issue

Computational Intelligence for Complex Systems

Message from the Guest Editor

Complex systems and computational intelligence are two emerging scientific fields that will enhance our understanding of complex real-world problems. On the one hand, by analyzing problems from a complex systems perspective, we can capture the nonlinear interactions between all the components of the system and understand the complex behavior that emerges on a global scale. On the other hand, computational intelligence is a novel approach to addressing high-dimensional problems involving tons of data by leveraging nature-inspired computational methodologies. The main reason behind the explosion of both these fields during the 21st century is the availability of large amounts of data. In the past, our ability to build accurate datasets to solve real-world problems was limited by the absence of high-resolution data. Hence, our newly acquired ability to store, share, and analyze data has driven the application of these two disciplines to a wide range of systems, including financial markets, social media, politics, agriculture, food supply chain, and mobility, just to name a few examples.

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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