Special Issue

Nonlinear Dynamics and Complex Phenomena in Fluid Mechanics and Related Systems

Message from the Guest Editor

Nonlinear phenomena are common in natural and engineered systems, particularly in the field of fluid mechanics. Nonlinear dynamics often give rise to unexpected outcomes, which presents challenges and chances for innovation. Understanding these behaviours is important for forecasting, controlling, and optimizing these systems. Nonlinear systems are modelled by differential equations that are nonlinear. There is no systematic method that can solve nonlinear differential equations, although various special methods have been developed by researchers in this regard. This Special Issue seeks to showcase original research focused on nonlinear problems arising in real-world applications, emphasizing innovative numerical, analytical, and experimental methodologies.

Guest Editor

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Message from the Editor-in-Chief

Mathematics permeates all kinds of academic worlds and is a fountain flowing with innovative development. The journal *AppliedMath*, publishing high-quality refereed papers discussing various aspects of applied mathematics, is dedicated to promoting the integration of mathematics with applied disciplines to cultivate a profitable frontier of mathematics. The journal highlights articles devoted to the mathematical treatment of questions and phenomena arising in physics, chemistry, biology, medicine, pharmacy, engineering, information science, social sciences, and humanities. One of the missions of this journal is to serve scientists by quickly announcing the seeds of significant mathematical breakthroughs in science and technology.

Editor-in-Chief

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