Special Issue

Research on Applied Partial Differential Equations

Message from the Guest Editors

The aim of this Special Issue is to advance the development of partial differential equation analysis, including theoretical and numerical analysis and applications in different areas of applied science. We invite researchers to contribute high-quality, original research articles as well as review articles on recent advances including, but not limited to, the following topics: modeling, theoretical analysis and numerical methods for ordinary and partial differential equations, exact solutions for nonlinear differential equations, Lie group analysis, integrable systems and solitons, fractional PDEs, and partial and ordinary stochastic differential equations. Keywords:

- fractional calculus
- ordinary differential equations
- partial differential equations
- stochastic differential equations
- nonlinear wave propagation
- applications of difference and differential equations in finance (or applications in finance)
- differential learning methods

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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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