

Special Issue

Computational Methods in Nonlinear Analysis and Their Applications

Message from the Guest Editors

Nonlinear analysis is a wide field of mathematics where a large number of multidisciplinary problems fit, hence its richness in applications to physics, medicine, economics, and engineering, among others, especially in natural sciences. Its broad applicability may be attributable to the fact that most of these problems come from nonlinear phenomena. In addition, the interest in this topic is growing, year-by-year. Now, researchers interested in disseminating and sharing their new advances in this field have a great opportunity in this Issue. This Special Issue focuses mainly on computational methods in nonlinear analysis and their applications in real life. Some of the related subjects that deserve to be studied and deepened are as follows: Initial and boundary value problems; Methods for nonlinear hyperbolic problems; Nonlinear wave propagation; Convection reaction equations; Stochastic differential equations; Nonlinear difference equations; Iterative algorithms; Dynamical systems and chaos; Stability analysis; Mathematical modeling; Asymptotic behavior; Approximation theory.

Guest Editors

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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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