Special Issue

Advances in Nonlinear Analysis and Applications

Message from the Guest Editor

Nonlinear analysis plays a crucial role in addressing complex problems that arise across diverse fields such as physics, biology, computer science, mechanics, economics, and more. This Special Issue focuses on the latest developments in nonlinear analysis and its wide-ranging applications. Nonlinear analysis, which is part of the broader field of nonlinear functional analysis, has seen significant growth in recent years due to its relevance to a variety of scientific and engineering challenges. We invite contributions that explore both the theoretical advancements and practical applications of nonlinear analysis. This includes, but is not limited to:

- Nonlinear ergodic theory and its applications
- Solutions to differential equations and control theory
- Dynamical systems and bifurcation theory
- Mathematical modeling of nonlinear phenomena
- Optimization, equilibrium, and split feasibility problems
- Applications of fixed-point theory to nonlinear issues

We are particularly interested in high-quality articles that offer new concepts, methodologies, algorithms, and demonstrate practical applications in various scientific disciplines.

Guest Editor

Dr. Dhananjay Gopal

1. Department of Mathematics, Guru Ghasidas Vishwavidyalaya, Bilaspur 495009, Chhattisgarh, India
2. Department of Mathematics, University of Jaén, 23071 Jaen, Spain

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).