

# Special Issue

## Nonlinear Systems: Dynamics, Control, Optimization and Applications in Science and Engineering, 4th Edition

### Message from the Guest Editor

The aim of this Special Issue is to highlight papers that show the dynamics, control, optimization, and applications of nonlinear systems. This has recently become an increasingly popular subject, with impressive growth concerning applications in engineering, economics, biology, and medicine, and is an important topic in the literature. Original papers relating to the areas presented above are especially welcome. Potential topics may include, but are not limited to, the following:

- Stability analysis of discrete and continuous dynamical systems;
- Nonlinear dynamics in biological complex systems;
- Stability and stabilization of stochastic systems;
- Mathematical models in statistics and probability;
- Synchronization of oscillators and chaotic systems;
- Optimization methods of complex systems;
- Reliability modeling and system optimization;
- Computation and control over networked systems.

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### Guest Editor

Prof. Dr. Quanxin Zhu

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### Deadline for manuscript submissions

31 August 2026



## Mathematics

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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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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
School of Computer Science and Informatics, De Montfort University,  
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JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).