## **Special Issue**

## Inverse Problems and Numerical Computation in Mathematical Physics

## Message from the Guest Editor

The suitable topics for this Special Issue "Inverse Problems and Numerical Computation in Mathematical Physics" include, but are not limited to, the following:

- Theory and methods for solving inverse problems in mathematical physics;
- Applications of inverse problems in various fields, such as nondestructive testing, seismic imaging, medical imaging and material sciences;
- Uniqueness and stability of solutions for inverse problems;
- Numerical methods for solving inverse problems, including iterative sequences, optimization techniques and regularization strategies;
- Recent advances and novel approaches in inverse problems and numerical computation;
- Inverse problems in specific mathematical physics contexts, such as layered media, impedance, gravimetry and heat conduction;
- Deep learning approaches for solving inverse problems or numerical computation in mathematical physics, including neural network architectures, training strategies and applications in various domains.

## Guest Editor

Prof. Dr. Youjun Deng School of Mathematics and Statistics, Central South University, Changsha 410083, China

#### Deadline for manuscript submissions

10 January 2026



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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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