

# Special Issue

## Application of Mathematical Method in Robust and Nonlinear Control

### Message from the Guest Editor

Recently, the significance of dealing with uncertainties in the field of control design has been realized from both academic and industrial perspectives. In general, uncertainties derive from the modeling of nonlinear systems, namely plant uncertainties, and the operation of nonlinear systems, namely external disturbances. As a challenging task, a number of robust and nonlinear control approaches using mathematical methods have been presented to further improve control performance against uncertainties, such as sliding mode control, fuzzy control, adaptive control, and H infinite control. This Special Issue, titled "Application of Mathematical Method in Robust and Nonlinear Control", presents the latest research and developments in mathematic-based robust and nonlinear control techniques for various engineering, science, and management applications. This Special Issue aims to serve as a forum for exchanging ideas and knowledge among researchers and practitioners worldwide, inspiring new research directions and applications in this field. Both original research and review papers are welcome to be submitted to this Special Issue.

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### Guest Editor

Dr. Shixi Hou  
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### Deadline for manuscript submissions

closed (31 January 2025)



## 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

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