

Special Issue

Uncertainty Theory and Applications

Message from the Guest Editors

Something is called random if its frequency of occurrence is known. Otherwise, it is called uncertain. In order to rationally deal with these phenomena, there exist two mathematical systems: probability theory and uncertainty theory. Probability theory is a branch of mathematics concerned with the analysis of random phenomena, while uncertainty theory is a branch of mathematics concerned with the analysis of uncertain phenomena. This Special Issue explores the practical uses of uncertainty theory in fields like finance, engineering, and healthcare. It shows how uncertainty can be quantified and integrated into statistical models to enhance the accuracy and reliability of predictions and decisions. Moreover, this Special Issue presents case studies and examples to demonstrate how uncertainty theory can be implemented to solve complex problems in real-world scenarios. This Special Issue welcomes all submissions related to uncertainty theory and applications.

Guest Editors

Dr. Zhe Liu

School of Economics and Management, North China Electric Power University, Beijing 102206, China

Dr. Hua Ke

School of Economics and Management, Tongji University, Shanghai 200092, China

Deadline for manuscript submissions

28 February 2026



Mathematics

an Open Access Journal
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Impact Factor 2.2
CiteScore 4.6



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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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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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