

Special Issue

Advances in Functional Differential Equations and Their Stochastic Versions: Theory, Numerics, and Applications

Message from the Guest Editors

Functional differential equations are mathematical tools that describe systems whose evolution depends not only on their current state but also on past states (delay differential equations), future states (advanced differential equations), or more generally, on their history within a function space (such as neutral differential equations). Such equations provide a more realistic representation of the widespread "time-delay" phenomena in the real world, such as the time required for signal transmission, decision-making feedback, biological growth, and the implementation of economic policies. This special issue entitled "Advances in Functional Differential Equations and Their Stochastic Versions: Theory, Numerics, and Applications" aims to bring together the latest groundbreaking advances in this field, focusing on three key pillars: theoretical analysis, innovative numerical algorithms, and interdisciplinary applications. It seeks to demonstrate how functional differential equations serve as a bridge connecting profound pure mathematical theories with complex practical problems in engineering, life sciences, finance, and other domains.

Guest Editors

Dr. Genghong Lin
Dr. Wenjuan Guo
Prof. Dr. Zhisu Liu

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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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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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