

Special Issue

Gaussian Process and Machine Learning

Message from the Guest Editors

In this special issue, we present a collection of articles that delve into the theoretical foundations, practical applications, and recent advancements in Gaussian process methodology in the area of machine learning. We hope that this special issue will inspire further research and innovation in the field, ultimately advancing our understanding and utilization of Gaussian processes in machine learning. The scope of this special issue deals with the below area are but are not limited to them.

- Advances in Gaussian Process Regression for analysing real-world complex data
- Gaussian Process for Bayesian Optimization
- Gaussian Process for Time series analysis
- Gaussian process in Reinforcement Learning
- Gaussian Process in Deep Learning
- Physics-inform Neural network (PINNs) versus Gaussian process
- Gaussian process for solving stochastic differential equations

Guest Editors

Dr. Omid Chatrabgoun

Data Science and AI, Coventry University, Coventry CV1 5FB, UK

Dr. Alireza Daneshkhah

Data Science and AI, School of Mathematics and Data Science, Emirates Aviation University, Dubai, United Arab Emirates

Deadline for manuscript submissions

closed (31 July 2025)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/204807

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

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

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).