Special Issue

Computational Optimizations for Machine Learning

Message from the Guest Editor

In the recent decade, machine learning has emerged as an indispensable tool for incredible number of applications such as computer vision, medicine, fintech, autonomous systems, speech recognition, traffic management, social media, and many others. Machine learning models provide state-of-the-art and robust accuracy in various applications. The increasing deployment of machine learning algorithms introduces major computational challenges due to the explosive growth in model size and complexity. These challenges have been further emphasized due to the diverse hosting platforms from edge devices and cloud systems to high-performance computing. Given that each platform introduces different computational and cost constraints, the need for computational optimizations that are fine-tuned to the application and platform is crucial. This Special Issue looks for novel developments of computational optimizations for algorithms in the domain of machine learning algorithms.

Guest Editor

Prof. Dr. Freddy Gabbay

Faculty of Engineering, Ruppin Academic Center, Emek Hefer 4025000, Israel

Deadline for manuscript submissions

closed (30 November 2021)

Σ

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

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 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI