

Special Issue

Privacy-Preserving Machine Learning in Large Language Models (LLMs)

Message from the Guest Editors

In recent years, the field of artificial intelligence has witnessed significant advancements, notably in the development of Large Language Models (LLMs) like GPT, BERT, and others. These models, powered by extensive datasets and complex neural network architectures, have shown remarkable capabilities in generating human-like text, understanding context, and even performing sophisticated reasoning tasks. However, the rapid adoption and integration of LLMs across various sectors raise substantial concerns regarding data privacy and security. The proposed Special Issue will focus on “Privacy-Preserving Machine Learning in Large Language Models (LLMs)”, aiming to spotlight innovative research, methodologies, and technologies that ensure privacy and security in the training and application phases of LLMs. It will cover theoretical advancements, practical implementations, and regulatory considerations that address how data used in LLMs can be protected against unauthorized access and misuse.

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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.

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