

Special Issue

Advances in AI Platform Infrastructure: Databases, Knowledge Management and Hardware Acceleration

Message from the Guest Editors

This Special Issue explores advancements in AI platform infrastructure, focusing on databases, knowledge management, and hardware acceleration. As AI evolves rapidly, the robustness and efficiency of these infrastructures are crucial for AI performance, scalability, and intelligence. We invite researchers and industry professionals worldwide to share their latest findings and applications. The issue covers how advancements in databases improve data storage, retrieval, and processing; how knowledge management better organizes and uses knowledge in AI; and how hardware acceleration boosts AI performance with specialized processors and architectures. Topics include next-generation AI databases, knowledge management system integration, and hardware acceleration techniques to enhance AI efficiency and scalability. Submissions on challenges, future trends, and breakthroughs are welcome, providing an overview of current and future AI platform infrastructure.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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