Special Issue

Intelligent Data Processing and Management: Technologies and Applications

Message from the Guest Editors

In the era of big data and AI, efficiently processing and managing vast, complex, and ever-growing datasets is a critical challenge. Advances in machine learning, data mining, cloud computing, and distributed systems have enabled intelligent systems to handle large-scale data more effectively. However, challenges remain in scalability, security, efficiency, and accuracy. This Special Issue aims to explore innovative methods and intelligent techniques that optimize the entire data lifecycle.

We welcome original research on AI-powered big data processing, data mining, intelligent stream systems, AI-enhanced security and privacy, AI-driven databases, LLMs in data management, graph data processing, spatial-temporal analysis, scalable machine learning, and advanced data mining. This issue will showcase breakthroughs that drive smarter, more efficient data systems.

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About the Journal

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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