Special Issue

Advanced Database Systems

Message from the Guest Editors

Modern database systems face increasing challenges due to the volume, variety, and velocity with which data is generated and consumed in different domains of knowledge and industry. The evolution of cloud computing, artificial intelligence, data science, and the Internet of Things (IoT) has driven a profound transformation in how data is stored, managed, and used. Papers that propose new data governance models, strategies for collaborative team management, innovative repository architectures, adaptive techniques for specific contexts (such as geospatial or biomedical databases), and efficient algorithms for information processing and retrieval will be especially valued. Suggested topics include the following: Advanced Database Systems Design and Evaluation. Data governance and data quality. Distributed systems and cloud databases. Big data storage and retrieval. NoSQL, NewSQL, and multi-model databases. Collaborative management and administration of DB development teams. Data modeling and specialized repository design. Data processing algorithms and query optimization. Data management.

Guest Editors

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Deadline for manuscript submissions

30 May 2026

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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