

Special Issue

Machine Learning and Artificial Intelligence in Recommender Systems

Message from the Guest Editor

Recommender systems play a crucial role in mitigating information overload by providing personalized suggestions in various domains such as e-commerce, entertainment, healthcare, and education. With the rapid advancements in machine learning (ML) and artificial intelligence (AI), modern recommender systems have evolved beyond traditional collaborative filtering and content-based approaches. This Special Issue focuses on cutting-edge research that leverages ML and AI techniques, including deep learning, graph-based methods, reinforcement learning, and contrastive learning, to enhance recommendation accuracy, diversity, and interpretability. Topics of interest include, but are not limited to, graph neural networks (GNNs) for recommendation, intent-aware and adversarial learning-based models, cross-domain recommendations, and responsible AI-driven recommendation frameworks. We welcome original research and review articles that contribute to advancing the theoretical foundations, novel methodologies, and real-world applications of intelligent recommender systems.

Guest Editor

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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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