Special Issue

Advanced Models and Algorithms for Recommender Systems

Message from the Guest Editor

As digital ecosystems grow and diversify, recommender systems have become integral in delivering personalized experiences, enhancing user engagement across sectors like e-commerce, social media, entertainment, and healthcare. With the rapid advancement of AI and data science, there is a growing interest in developing models and algorithms that not only improve recommendation accuracy but also address challenges in scalability, interpretability, user privacy, ethics, cold-start problems, data heterogeneity, and the integration of large language models. Traditional recommendation approaches, though widely used, face limitations in handling sparse, noisy, and evolving data environments. Recently, advanced techniques in deep learning, graph neural networks, and hybrid collaborative methods have shown promising potential in tackling these challenges by leveraging contextual, sequential, and multi-modal data. This Special Issue, “Advanced Models and Algorithms for Recommender Systems”, brings together cutting-edge research focused on refining recommender systems through enhanced modeling, innovative algorithms, and practical implementations.

Guest Editor

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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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