Special Issue

Advances and Applications in Graph Neural Networks (GNNs)

Message from the Guest Editors

Graph Neural Networks (GNNs) are transforming machine learning by enabling advanced modeling of complex relational data. This Special Issue explores methodological advances and real-world applications of GNNs, showcasing innovations that push the boundaries of graph-based AI. We welcome contributions on: novel GNN architectures, scalability, transfer and few-shot learning, domain adaptation, meta-learning, dynamic and spatio-temporal graphs, online learning, explainability, interpretability, uncertainty, and robustness. Applications include bioinformatics, drug discovery, social networks, recommendation systems, computer vision, NLP, finance, economics, energy, and transportation. Submissions combining theory with strong empirical validation on large-scale datasets are encouraged, as well as comprehensive surveys mapping the evolving landscape of GNN research.

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