

Special Issue

Algorithms and Applications of Graph Neural Network

Message from the Guest Editor

Algorithms and Applications of Graph Neural Networks (GNNs) are increasingly vital for learning over graph-structured data, offering a principled framework to capture dependencies in graphs that arise in diverse domains such as social networks, molecular biology, recommendation systems, and power and energy systems. Advances in GNN algorithms not only deepen our understanding of graph-based representations but also enhance scalability, expressiveness, and generalization across tasks involving complex relational structures. The development of efficient and theoretically grounded GNN architectures facilitates interdisciplinary research, opening new frontiers in both foundational theory and applications.

Guest Editor

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