Special Issue

Advances in Deep Learning for Graph Neural Networks

Message from the Guest Editors

With the rapid progress of deep learning, Graph Neural Networks (GNNs) have become a cornerstone for modeling structured and relational data across numerous domains. Their success spans from recommender systems and social networks to molecular biology, traffic forecasting, and financial risk modeling. As GNNs continue to evolve, new challenges and opportunities arise in architecture design, scalability, interpretability, and real-world deployment. This Special Issue aims to present the latest developments in deep learning techniques for GNNs, offering a platform for researchers, engineers, and practitioners to share innovative ideas, theoretical advancements, and impactful applications. We welcome contributions from both academia and industry that explore foundational models, optimization strategies, and domain-specific implementations. Keywords

- graph neural networks
- graph generative models
- multimodal graph learning
- recommendation systems
- privacy-preserving graph learning
- LLM-based graph learning
- self-supervised graph learning

Guest Editors

Dr. Yonghong Yu
College of Tongda, Nanjing University of Posts and Telecommunications, Nanjing 210049, China

Prof. Dr. Li Zhang
Department of Computer Science, Royal Holloway, University of London, Surrey TW20 0EX, UK

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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