

Special Issue

Mechanism and Modeling of Graph Convolutional Networks

Message from the Guest Editors

Graph convolutional networks (GCNs) have been developed rapidly, leading to the creation of diverse models in different fields, such as the biomedical, genetical analysis, and pattern recognition fields. GCNs are a type of deep learning model that operate on graph-structured data, as they can capture the local structure of data and identify patterns and regularities in the data based on tasks including node classification, graph classification, and link prediction. Moreover, GCNs not only can be used to learn node representations capturing the topology between the data, but can be utilized as features for downstream tasks, such as classification and clustering. To deal with the discussed issues and the existing research challenges, this Special Issue aims to encourage scholars to design more interesting works based on GCNs and to explore the mechanism and modeling of the framework of GCNs. Moreover, high-quality submissions involving theory analysis and the interpretability of GCNs are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (15 April 2025)



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