

Special Issue

Robustness of Graph Neural Networks

Message from the Guest Editors

The primary objective of this Special Issue is to assemble experts from diverse disciplines to showcase their innovative methodologies and models that enhance the robustness of GNNs. We will discuss various aspects, including the development of novel robust GNN architectures; the robustness analysis of GNNs in relation to noise and dataset biases; and the examination of GNN robustness from the perspectives of entropy and information theory. We will also delve into the scalability and reliability of GNNs on large-scale graph datasets, their adversarial robustness to attacks, out-of-distribution samples and group transformations (equivariance), as well as the application of robust GNN algorithms in social network analysis, point cloud, biology and chemistry-related fields.

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