

Graph Contrastive vs. Supervised Anomaly Detection on Large-Scale Heterophilic Graphs

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Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: How does the inference efficiency of graph contrastive anomaly detection models compare to supervised methods when evaluated on large-scale heterophilic graph benchmarks like Amazon, Coauthor, or. Combining Graph neural networks (GNNs) with contrastive learning for anomaly detection has drawn rising attention recently. Existing graph contrastive anomaly detection (GCAD) methods have primarily focused on improving detection capability through graph augmentation and. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Revisiting Graph Contrastive Learning for Anomaly Detection. Research question: How does the inference efficiency of graph contrastive anomaly detection models compare to supervised methods when evaluated on large-scale heterophilic graph benchmarks like Amazon, Coauthor, or ogbn-arxiv?.

2 Methodology

Systematic literature search across multiple databases yielded 9 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.8/10.

3 Results

9 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.8/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

References

- <http://arxiv.org/abs/2305.02496v1>
- <http://arxiv.org/abs/1404.4679v2>
- <http://arxiv.org/abs/2212.05478v1>