Multi-View Graph Attention Networks: Attention Mechanism Effects on Anomaly Detection Performance

Assignee Research

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: What is the impact of different attention mechanisms (e.g., self-attention, cross-attention) in multi-view GAT models on anomaly detection accuracy and F1 scores in graph-based benchmark datasets. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Anomaly Detection: How to Artificially Increase your F1-Score with a Biased Evaluation Protocol. Research question: What is the impact of different attention mechanisms (e.g., self-attention, cross-attention) in multi-view GAT models on anomaly detection accuracy and F1 scores in graph-based benchmark datasets like Cora or Citeseer?.

2 Methodology

Systematic literature search across multiple databases yielded 11 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.2/10.

3 Results

11 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 7.2/10.

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/2212.05478v1
- http://arxiv.org/abs/2201.02822v2
- http://arxiv.org/abs/2106.16020v1