

# Multimodal Models Enhance Intrusion Detection Accuracy on UNSW-NB15 Benchmark

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## Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: To what extent do multimodal models improve intrusion detection accuracy when combining network traffic and host-level data, evaluated on the UNSW-NB15 benchmark. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: IGRF-RFE: A Hybrid Feature Selection Method for MLP-based Network Intrusion Detection on UNSW-NB15 Dataset. Research question: To what extent do multimodal models improve intrusion detection accuracy when combining network traffic and host-level data, evaluated on the UNSW-NB15 benchmark?.

## 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 3.0/10.

## 3 Results

9 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.0/10.

## 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/1912.12673v1>
- <http://arxiv.org/abs/2203.16365v2>
- <http://arxiv.org/abs/2212.00966v1>