

Comparative Robustness of BE-SNNs and Standard SNNs Under Adversarial Attacks

Assignee Research

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Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: What is the comparative accuracy drop of BE-SNNs versus standard SNNs under iterative adversarial attacks on structured datasets when measured by inference latency and spike sparsity. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: HIRE-SNN: Harnessing the Inherent Robustness of Energy-Efficient Deep Spiking Neural Networks by Training with Crafted Input Noise. Research question: What is the comparative accuracy drop of BE-SNNs versus standard SNNs under iterative adversarial attacks on structured datasets when measured by inference latency and spike sparsity?.

2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.2/10.

3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.2/10.

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/2110.11417v1>
- <http://arxiv.org/abs/2109.00533v1>
- <http://arxiv.org/abs/2405.20355v1>