

Information Potential Fields vs Bayesian Methods for OOD Detection in High-Dimensional Tabular Data

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Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: Can single deterministic models leveraging information potential fields achieve comparable OOD detection AUC scores to weight-based Bayesian methods on high-dimensional tabular benchmarks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Batch-Ensemble Stochastic Neural Networks for Out-of-Distribution Detection. Research question: Can single deterministic models leveraging information potential fields achieve comparable OOD detection AUC scores to weight-based Bayesian methods on high-dimensional tabular benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.7/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.7/10.

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/2206.12911v1>
- <http://arxiv.org/abs/2307.05639v2>
- <http://arxiv.org/abs/2504.20900v1>