Adversarial Training Effects on Probabilistic Occupancy Grid Calibration in Urban Driving Models

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Abstract

This report synthesises findings from 17 peer-reviewed papers addressing the following research question: What is the impact of adversarial training on the calibration of probabilistic occupancy grid predictions in urban autonomous driving models evaluated on the Waymo Open Dataset. Being able to generate realistic trajectory options is at the core of increasing the degree of automation of road vehicles. While model-driven, rule-based, and classical learning-based methods are widely used to tackle these tasks at present, they can struggle to effectively. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: VideoGAN-based Trajectory Proposal for Automated Vehicles. Research question: What is the impact of adversarial training on the calibration of probabilistic occupancy grid predictions in urban autonomous driving models evaluated on the Waymo Open Dataset?.

2 Methodology

Systematic literature search across multiple databases yielded 17 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.5/10.

3 Results

17 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.5/10.

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/2407.01436v1
- http://arxiv.org/abs/2312.12144v1
- https://arxiv.org/abs/2506.16209