Qeios

Peer Review

Review of: "OpenAD: Open-World Autonomous Driving Benchmark for 3D Object Detection"

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The paper presents an open 3D world perception dataset, focusing for the first time on over 200 categories, including many long-tail scenarios, which is of significant importance for the development of the autonomous driving field. I find the motivation of this paper to be very meaningful, and with improvements to the related tutorials on GitHub, it has the potential to become a significant contribution to the field. However, I have some concerns as follows:

1. The writing quality of the paper needs improvement. The overall structure of the paper requires reconsideration, especially in the first, third, and fourth sections. For a dataset paper, the focus should be on distinguishing it from previous datasets, providing a detailed analysis of the dataset's characteristics, and explaining how these features benefit the field of autonomous driving.

2. The logical flow between the paragraphs is poor, failing to form a cohesive whole. I suggest a major revision of the paper, with a new framework for the paper's structure.

3. The experimental section is not the focus of a dataset paper. The experiments should highlight the characteristics of the dataset and be linked to the core features of the dataset.

In summary, I believe the paper requires substantial revisions. By rethinking the framework and rewriting the paper, it can certainly become a meaningful contribution. I am also very interested in this work, and if possible, I would appreciate the opportunity to communicate and exchange ideas via email.

Declarations

Potential competing interests: No potential competing interests to declare.