

# Review of: "CNN-Based Road Damage Detection"

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Potential competing interests: No potential competing interests to declare.

1. The introduction section requires citation to related references that confirm the various claims stated there.
2. It is necessary to stress the advantage of the proposed approach against the existing ones. This is not stated clearly.
3. The initial part of section "3.1. Model Overview" should be in the introduction. Section 3.1 should focus on the model overview itself.
4. The paper should better explain how it deals with data loss in the communication path between the robot and the server infrastructure.
5. The distances covered by the robot in the experiments, as well as the estimated distance it might work flawlessly, demand clarification.
6. Figures 1 and 2 have to be properly explained, since it is hard to understand the role of each part that constitutes them.
7. The setup for the evaluation needs to be improved. It is not clear how YOLOv5 was processed on the Raspberry Pi. More details are indeed necessary so the experiment can be reproducible.
8. The used dataset requires a much better explanation. It is mentioned that it comes from different sources, including freely accessible datasets, online databases, and the author's own data gathering, but from Table 1 it seems that in the evaluations the authors used only their own data.
9. The evaluations should be compared to key existing approaches.
10. It is advisable to completely restructure the text, since it is currently a bit confusing to follow.