

Workers Supervision for Construction Safety

(Group 5)

- Summary of the report.

The report investigates the workers safety in construction site whether they wear safety equipment by using autonomous monitoring system. Raw datasets are preprocessed and model building with diagnosis followed by selection and exploratory analysis. RAPiD is the best model for workers detection with 0.969 F-score in HABBOF dataset.

- Strengths of the report.

Providing supportive visualization of model procedure for the methodology section.

Couple of models used (RAPiD)

Presentation skills are shown in fisheye view in real life as a support

- Describe the weaknesses of the report.

Overall, the report is well described of its purpose. Unfortunately, hyperparameter settings did not mention in the report. Also, there is only one loss graph in workers detection and no visualization for equipment detection.

- Evaluation on quality of writing (1-5): 4

The report is written in a clear way with subtopic, objectives and methodology. There are figures for visualization of model architecture. However, there is only one loss graph in workers detection and no visualization for equipment detection. There is no type in report. I would like to suggest that the model training and model result should be visualized.

- Evaluation on presentation (1-5):4

The presentation is clear and organized. The time allocation is balanced.

The presentation explains models with and mathematical result.

It shows possible further improvement.

- Evaluation on creativity (1-5): 4

The model part is good for reader that it used numbers of new ideas for example efficientNetv2, RAPiD. However, the model detail information is not enough although the overall model architecture is well provided. The reader has brief idea of how-to reconstruction the model but may need multiple of try for same result and manipulate the result. That would be a great presentation to reader and reader may cite this report.

- Confidence on your assessment

3, I have carefully read the paper and checked the results