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m45: Object recognition

Using machine learning to classify image objects.

Introduction.

I will use a CNN

the dataset has been divided into training and testing sets and you will apply machine learning algorithms taught on the course to classify the object in an image.

Provide overview of the problem, the proposed solution, and your experimental results.

The introduction is very well presented, covers all required information, and provides insight into the problem.

Method.

Present your proposed method in detail. This should cover how the features are extracted, any feature processing you use (e.g. clustering and histogram generation, dimensionality reduction), which classifier(s) is/are used, and how they are trained and tested. This section may contain multiple sub-sections.

The proposed method shows clear understanding of the material. Multiple comparative methods are presented, and the reasoning behind their selection is well presented. There is deep, critical reasoning behind the choices.

(Sharma, Jain and Mishra, 2018)(Zoumpourlis *et al.*, 2017)(Sun *et al.*, 2018)(Huang *et al.*, 2016)(Yan *et al.*, no date)

Results.

A well-presented and thorough evaluation. The results provide a clear insight into the experimentation proposed within the methodology section. A clear understanding of the results is evident.

Present your experimental results in thissection. Explain the evaluation metric(s) you use and present the quantitative results (including the confusion matrix).

Conclusion**.**

A concise summary of the report. The critical analysis shows clear understanding of the materials and findings. Shows well considered suggestions for future work.

Provide a summary for your method and the results. Provide your critical analysis; including shortcomings of the methods and how they may be improved.

References**.**Include correctly formatted references where appropriate. References are not included in the page limit.