Multimedia Project SoSe 23

Assignment 7

Multimedia Computing Lab
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Please take a look at assignment 0 on how to submit your work.

Exercise 7.1 Data Augmentation   8 Points

Modify `MMP_Dataset` such that it uses the following data augmentation steps:

(a) Implement at least two different types of color space transformations from the lecture.

(b) Implement at least two different types of geometric transformations from the lecture.

For every implemented transformation, submit two example images that showcase the transformation. Make sure that the box annotations still match and draw them on the images that are submitted.

Exercise 7.2 Ablation Study   10 Points

Run your training 8 times, everytime enable a different combination of data augmentation. Choose the most relevant combinations and justify your decisions.

Report and interpret the results, especially the differences between the experiments.