

Photograph Palette Alteration Utilising Image Segmentation

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Abstract

This project will examine in detail the use of semantic segmentation for the purpose of colour manipulation in images, using previous work with palette alteration to further simplify the approach for those with little experience with image manipulation software. The aim of this combination of techniques will be to provide a means for image manipulation for novices that is near the standard achievable by experts. Examinations of the cutting edge will be made, with the approaches that are at the current forefront of study in the area, as well as a novel approach to palette estimation to further simplify the proposed approach. This approach was found to be good at what it aimed to do, though there is still work that could be done with regards to the novel palette estimation.