

College of Engineering Chengannur
Department of Computer Engineering
M. Tech. Computer Science(Image Processing)
03CS6902 Mini Project
Periodic Report No.11 (For the period (25/08/2021) to (31/08/2021))
Image Enhancement/Single Image HDR Imaging Method based on Retinex Filtering
CHN20CSIP04 SHANU JOY

1 Work Assigned

Design presentation and initial implementation

2 Work Done

Design evaluation completed on 26/08/2021 and got approval to start implementation.

2.1 Discussion made on design evaluation

Suggested to include modifications in project to design report.

2.1.1 Modification planning to be implemented in existing method:

1. replacing the weighted least square filter which is being using at the initial stage called image decomposition module to guided filter in order to enhance the speed and overall performance of project.

Both weighted least square filter and guided filter are considered as edge preserving and smoothing filter. Among them, guided filter is the fastest one as it has a fast and non approximate linear time algorithm, regardless of the kernel size and the intensity range.

Reference for guided filter :

<https://ieeexplore.ieee.org/document/6319316>

3 Work Schedule for Next 10 Days

Complete implementation of image decomposition module and SRS module.

4 Assessment of Guide

Performance assessment & Remarks by the guide: Poor/Acceptable/Satisfactory/Good/Very Good/Excellent

Angel Thankam Thomas & dated signature of the guide: