Proposal for Graduation Project 2018

GlassesFree: Image Processing Software for Glasses Free vision

Glasses are essential tool in daily life of many people. It is difficult to be able to handle daily life activities without wearing vision correction glasses. However, in some cases wearing glasses is annoying especially for early age children. GlassesFree is an image processing software that help people with vision problems to see digital content clear without wearing glasses. The idea is simply to implement an image processing filters to display the image such that it fit the eye measurements of the patient.

Input/Output:

- Input: Clear image which is potentially not good to be viewed without glasses.
- Output: Unclear image which is potentially good for patient without glasses.

Knowledge required:

- Image Processing
- Programing
- Filtering techniques
- Computer vision

Beneficial entities:

- Public
- Ophthalmology clinics
- Hospitals

Hardware/Software requirements:

- Images for patient clinical experiments.

Expected outcome:

- New knowledge   (some how)
- Research paper   (yes)
- Commercial product   (yes)