Specularities, shadows and occlusions can often cause loss of information in images. This commonly happens when photographing posters, information shields, books, magazines and printed photos. The purpose of this project is to remove the undesired phenomena from images, given a pair of views of a planar object.

A basic framework and the dataset for evaluation are available and can be taken as a starting point. Further developments include robust detection and correction e.g. by exploiting physical and statistical properties, automatic ROI detection, accounting for non-linear effects and multi-resolution approach to detection. Ideally, the final version of the framework will be implemented as a mobile application (in this case, initial mobile implementation will also be provided).

Tasks:
- Literature research
- Development and implementation of the framework
- Evaluation of the proposed approach
- Optionally: implementation as a mobile application

Requirements:
- Very good programming skills (e.g. C++, Matlab, python)
- Prior knowledge in Computer Vision (e.g. attendance of PCV, AIA or DIP lectures)

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