Probeless Light Detection

Seminar or Masters Project

Figure 1: Real-time photometric registration from arbitrary geometry, L Gruber, T Richter-Trummer, D Schmalstieg, ISMAR, 2012

Objective:
You should implement the light estimation approach proposed by Gruber et al. [1]. It estimated the incident lighting based on sampling the camera image and a 3D reconstruction. Therefore, next to the light estimation you will need to implement a dense reconstruction of the environment that runs on a mobile phone (see [1] for details).


Qualifications:
- Good programming skills (C++, C#, Unity)
- Ability to work independently

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