Description:
3D object pose estimation plays a key role in AR applications. We can visually merge virtual information onto a real object with geometrical consistency, using mobile phone applications. The starting point of this work is to use our fast and automated object detection and 3D pose estimation method capable of working with large amounts of background clutter, severe occlusions and scale changes. We then train a model using frameworks compatible with Android or IOS such as caffe2 or Core ML, to use it as a mobile application. Finally, we add virtual information onto the scene such as nice visual effects on the target object. The start and end of the project can be chosen by arrangement.

Objective:
- Review literature about recent works
- Getting familiar with Deep Learning
- Implement a simple application on IOS/Android

Qualifications:
- Experience in Python or C++
- Interest in Machine Learning
- Interest in Augmented Reality
- Interest in Mobile Application

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