Master's Thesis

Hand Pose Estimation Using Multi-View RGB-D Sequences

In this project the task is to fit a parametric hand mesh model and a set of rigid objects to a sequence of multi-view RGB-D cameras. Existing models for hand key-point detection and 6DoF pose estimation for rigid objects models have significantly evolved in recent years. Our goal is to utilize such models to estimate the hand and object poses.

Related Work

4. https://github.com/ylabbe/cosypose

Prerequisites

- Knowledge in computer vision.
- Experience about segmentation models (i.e. Detectron2)
- Experience with deep learning frameworks PyTorch or TensorFlow(2.x).
- Experience with Pytorch3D is a plus.

Contact

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