

SOTA algorithm

- 1. Unsupervised Learning of Depth and Ego-Motion from Video (CVPR 2017 Oral/open source)
- 2. Unsupervised Learning of Depth and Ego-Motion from Monocular Video Using 3D Geometric Constraints
- 3. Learning Depth from Monocular Videos using Direct Methods (CVPR 2018/open source)
- 4. GeoNet: Unsupervised Learning of Dense Depth, Optical Flow and Camera Pose (CVPR 2018/open source)
- 5. Unsupervised Learning of Monocular Depth Estimation and Visual Odometry with Deep Feature Reconstruction (CVPR 2018/open source)
- 6. Depth Prediction Without the Sensors: Leveraging Structure for Unsupervised Learning from Monocular Videos (AAAI 2019/open source/SOTA)
- 7. Unsupervised Monocular Depth and Ego-motion Learning with Structure and Semantics (CVPR 2019/open source)
- 8. Competitive Collaboration: Joint Unsupervised Learning of Depth, Camera Motion, Optical Flow and Motion Segmentation (open source)
- 9. Depth from Videos in the Wild: Unsupervised Monocular Depth Learning from Unknown Cameras
- 10 A Deeper Insight into the UnDEMoN: Unsupervised Deep Network for Depth and Ego-Motion Estimation
- 11. SfMLearner++: Learning Monocular Depth & Ego-Motion using Meaningful Geometric Constraints
- 12 Epipolar Geometry based Learning of Multi-view Depth and Ego-Motion from Monocular Sequences

1. Deep Ordinal Regression Network for Monocular Depth Estimation (SOTA for Monocular Depth Estimation on KITTI Eigen split/open source)

2. High Quality Monocular Depth Estimation via Transfer Learning (SOTA for Monocular Depth Estimation on NYU-Depth V2/open source)