A Large Dataset to Train Convolutional Networks for Disparity, Optical Flow, and Scene Flow Estimation

Niklaus Mayer
mayer@cs.tum.de
Eddy Ilg
ilg@cs.tum.de
Philip Häusser
haeusser@cs.tum.de
Philipp Fischer
fischer@cs.uni-freiburg.de
Daniel Cremers
cremers@in.tum.de
Alexey Dosovitskiy
dosovitskiy@cs.uni-freiburg.de
Thomas Brox
brox@cs.uni-freiburg.de

Databases

What is SceneFlow?

Data Generation

Training Schedules

Disparity Network Architecture

3D Correlation for Disparity

Disparity Estimation

Convolutions Between Upsampling

Scene Results

Building the SceneFlowNet

Benefits of Joint Refining

Results

Scene Flow Estimation

Acknowledgements

Scene Flow Results

Our Datasets

References