

Files

This dataset contains 3 main parts, each consisting out of the raw data and the processed results.

flight10.avi

This is a video file made by using the 4-gram cam. The images are greyscale, with resolution 128x96 per camera (thus 256x96 for the stereo pair). The video was made by applying the PSSL algorithm as described in the paper on a ARDrone2 with this camera mounted on top. The first half of the video was captured on the basis of by PSSL ground truth stereo behavior, the last half was made by using the behavior based on the PSSL learned monocular images.

flight10_visualizations.avi

This is a video file with added visualizations based on flight10.avi. The algorithms are described in the paper. A legend is shown in legend.png.

secondgt.avi

This video is made in the same setting and hardware as flight 10, but it was made by only flying based on the PSSL stereo ground truth images.

secondgt_visualizations.avi

This is a video file with added visualizations based on secondgt.avi. The algorithms are described in the paper. A legend is shown in legend.png.

MITCubicle.avi

This is a video file made by using the SPHERES stereo camera. The video file greyscale, with resolution 640x480 per camera (thus 1280x480 for the stereo pair). The video was made by manually walking around the camera inside an office cubicle.

MITCubicle_visualizations.avi

This is a video file with added visualizations based on MITCubicle.avi. The algorithms are described in the paper. A legend is shown in legend.png.

Legend

Original left input image

Intensity texton annotated with color from histogram

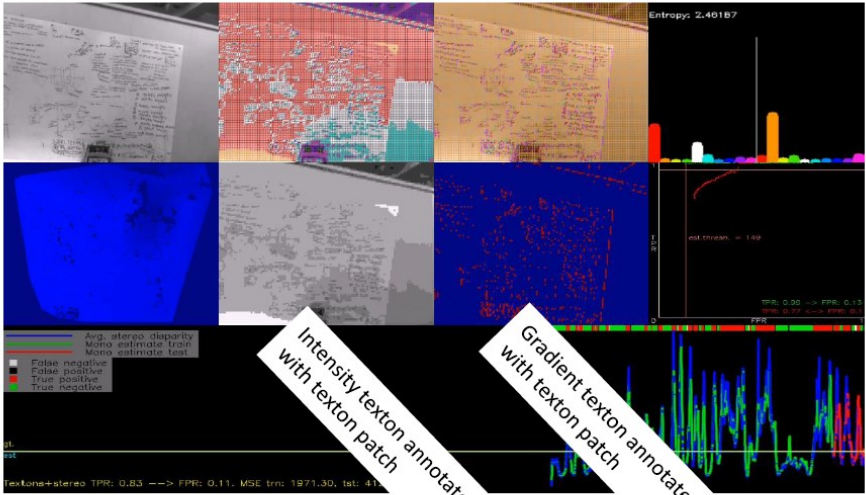
Gradient texton annotated with color from histogram

Texton distribution

Disparity map

Regression graph

ROC analysis



Intensity texton annotated with texton patch

Gradient texton annotated with texton patch