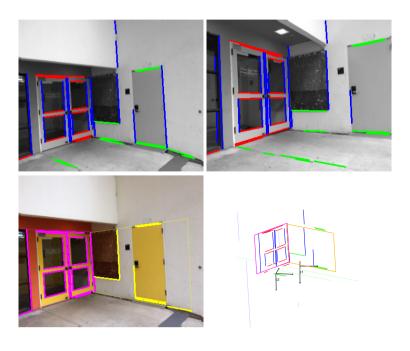
Planar Structures from Line Correspondences in a Manhattan World Supplementary Material

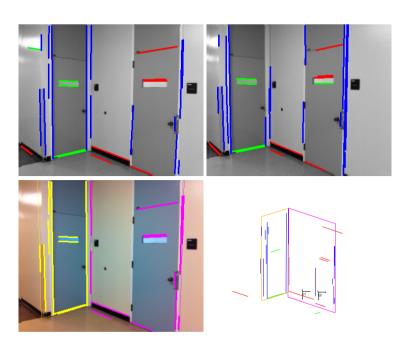
Chelhwon Kim¹, Roberto Manduchi²

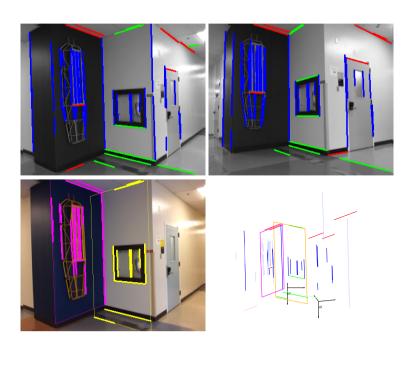
Electrical Engineering Department
Computer Engineering Department
University of California, Santa Cruz
Santa Cruz, CA, US

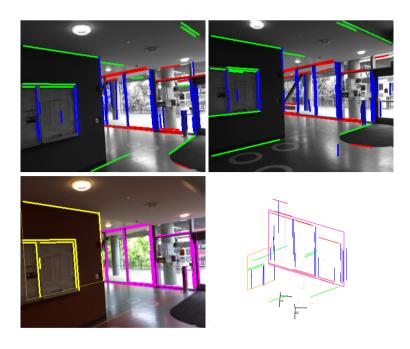
Image Data Set and Results

This Supplementary Material document presents the image data set used for our experiments, together with the results of our algorithm. For each scene, we show in the first row the image pair with detected lines (colored according to their orientation). All lines that have been matched (possibly incorrectly) across images are used for coplanarity estimation. The bottom left image shows the coplanar line sets as detected by our algorithm. Line segments in each coplanar set are assigned a unique color. The quadrilaterals $\mathcal Q$ shown by dotted lines represent potential planar patches. The bottom right image shows the 3-D reconstruction of the visible line segments and camera center positions. Line segment are colored according to their orientation in space. The colored rectangles are the reconstructed planar patches corresponding to the quadrilaterals $\mathcal Q$ shown with the same color as in the bottom left image. The lines that have been incorrectly matched across images are shown in the 3-D reconstruction using pale color.









4 Chelhwon Kim, Roberto Manduchi

