photo1 2009 homework 6 relative orientation find the photo1_09_hw6.zip file on ftp-site. take two convergent photos of a scene/object with approximate base/height ratio of 0.15 measure 10+ conjugate points well distributed throughout the portion of you rfield of view that was covered by calibration targets. enter these into left.txt and right.txt (examples below) enter camera data into cam. txt (annotated example below) run ro15.m (relative orientation by coplanarity) rms for x & y should be in the 1-2 pixel range look at relative magnitude or rmsx and rmsy. any explanation for the difference? turn in output listing. we will continue this next term to show some applications of oriented stereo pair. ------[cam.txt] Nikon Coolpix L20 % text string describing camera % image width % image height % x0 (displacement from image center, pixels) % y0 % focal length, pixels % k1 % k2 3648 2736 0 0 4040 -0. 26851241 1. 2105713 -1. 2280079 % k2 % k3 2300 % maxr as entered for hw5 [left.txt] - [sequence# x y] - x=column, y=row 601 1459 1 2 321 3 1885 1183 312 4 2968 5 2998 629 2179 6 2307 7 2071 8 1152 9 2126 2210 1256 1206 1007 10 1090 271 11 943 12 2570 815 1554 13 2464 1696 [right.txt] 647 1519 1 2 411 1263 3 1774 448 4 3032 734 3 1774 776 4 3032 734 5 2948 2295 6 2256 2291 7 1935 1349 8 1185 1297 9 2150 1115 10 1263 419 11 1076 933 12 2562 1657 13 2345 1787

photo1_09_hw6.txt