

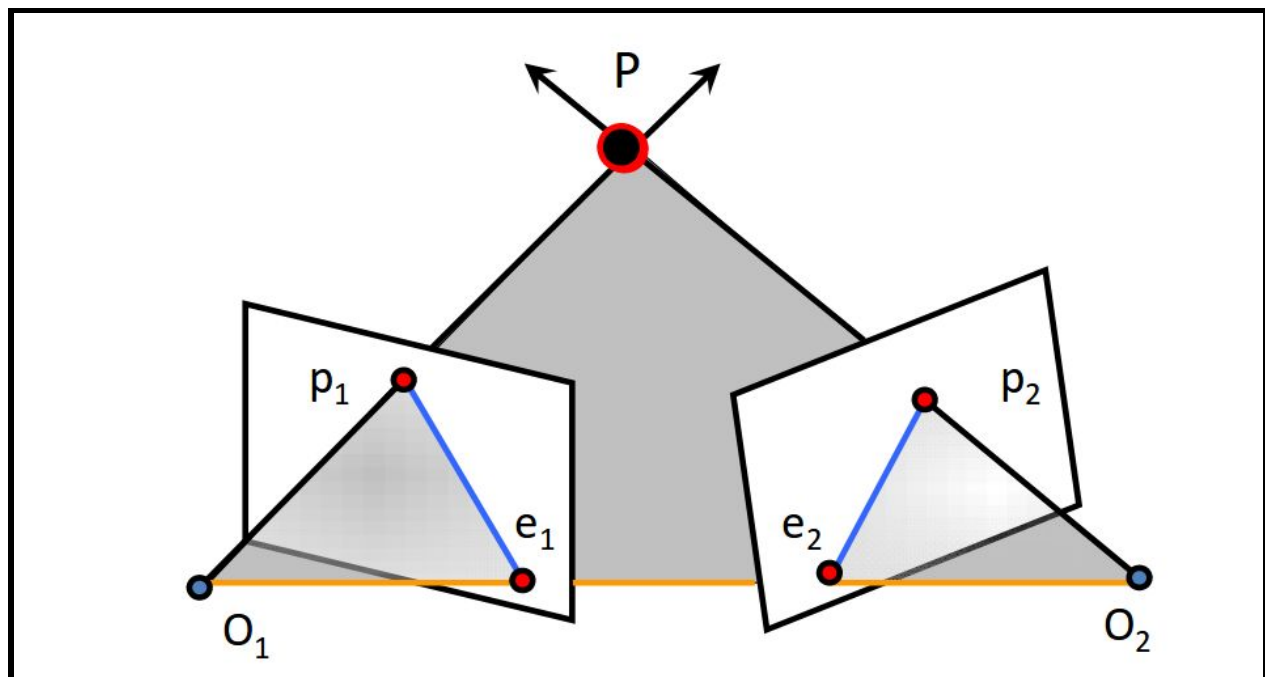
Two View Sparse Reconstruction

Roll no. 20161103

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Introduction:

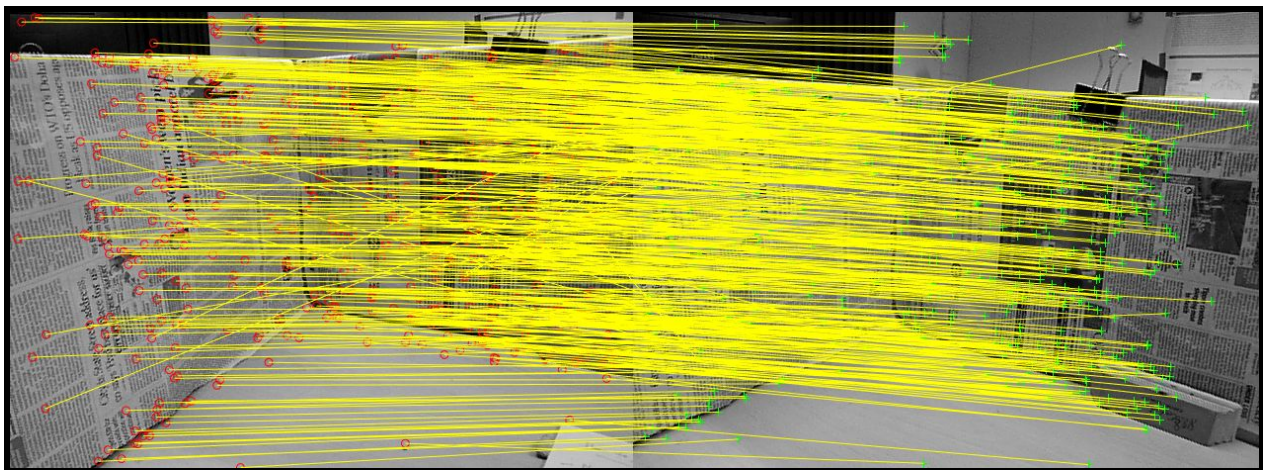
The objective was to reconstruct the scene being captured from a calibrated monocular camera. Two images were given and using the epipolar geometry, we computed the fundamental matrix. From F , we then computed E and triangulated the corresponding 2D points



Result:

R:			
0.9897	-0.1159	0.0834	
0.1136	0.9930	0.0318	
-0.0865	-0.0220	0.9960	
T:			
0.9897	-0.1159	0.0834	-0.9112
0.1136	0.9930	0.0318	0.0064
-0.0865	-0.0220	0.9960	0.4119
0	0	0	1.0000
F:			
0.0000	0.0000	-0.0012	
-0.0000	0.0000	-0.0048	
0.0014	0.0041	0.0686	
E:			
0.1643	1.4199	0.0235	
-1.1412	0.2354	-3.2687	
0.3812	3.1374	0.1025	

Matched Features and Images:



3D Reconstruction:

