

SFND 2D Feature Tracking

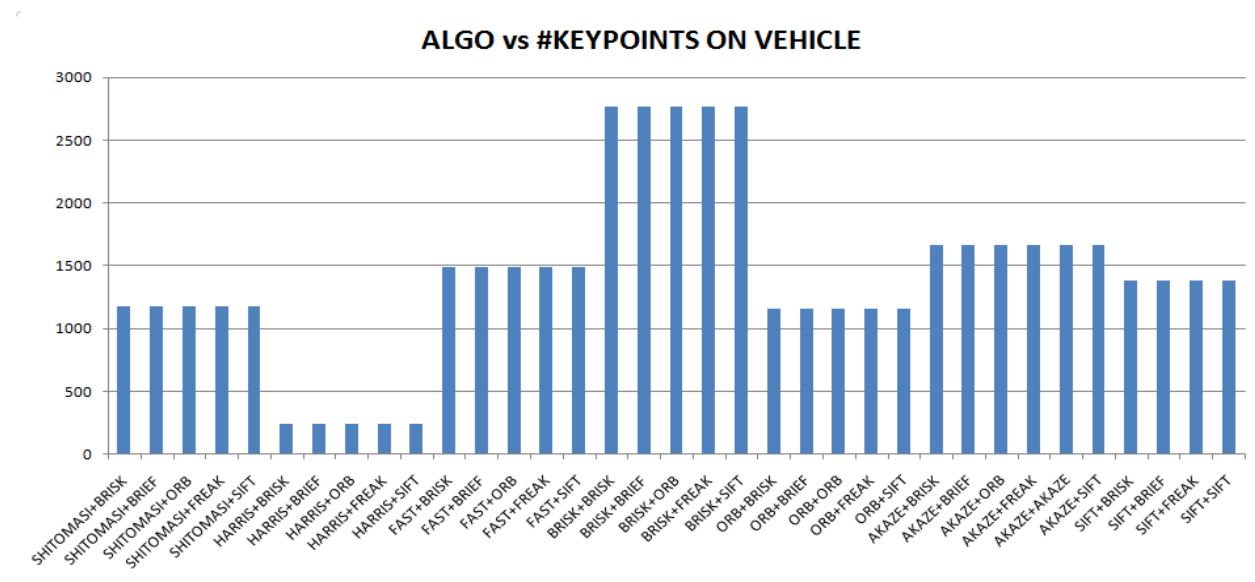
Analysis of different algorithms for 2D Feature Tracking can be found in
[/home/workspace/SFND_2D_Feature_Matching/Analysis.csv](#)

Visualization can be turned on/off using the boolean **bVis** in MidTermProject_Camera_Student.cpp

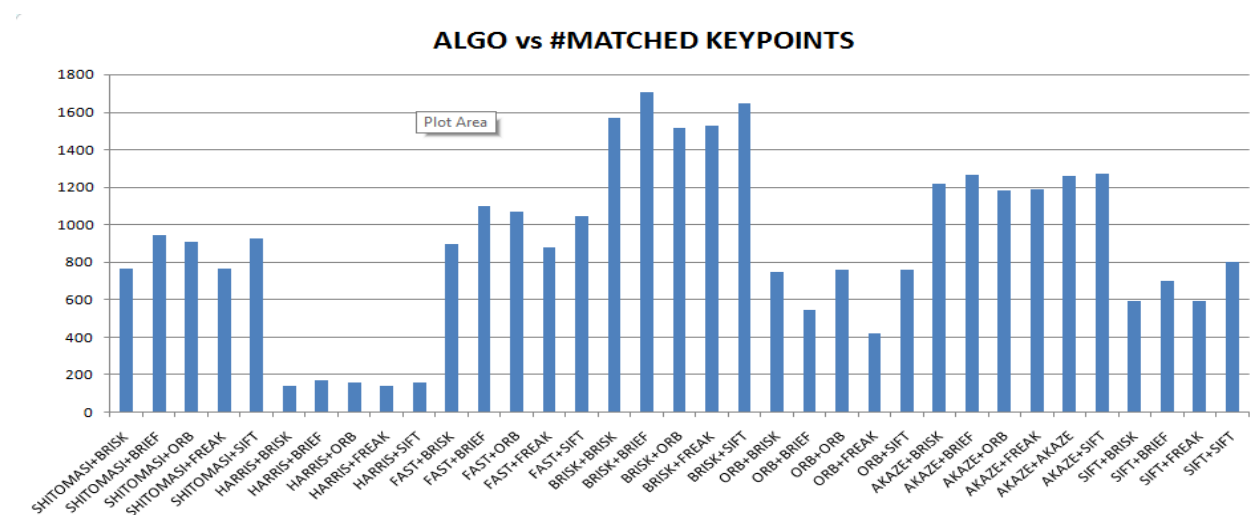
Source Code will generate two reports in /home/workspace/SFND_2D_Feature_Matching/report.

1. Report.csv – Overall Report for all combinations of algorithms for each image
2. Summary.csv – Contains overall summary of all algorithms

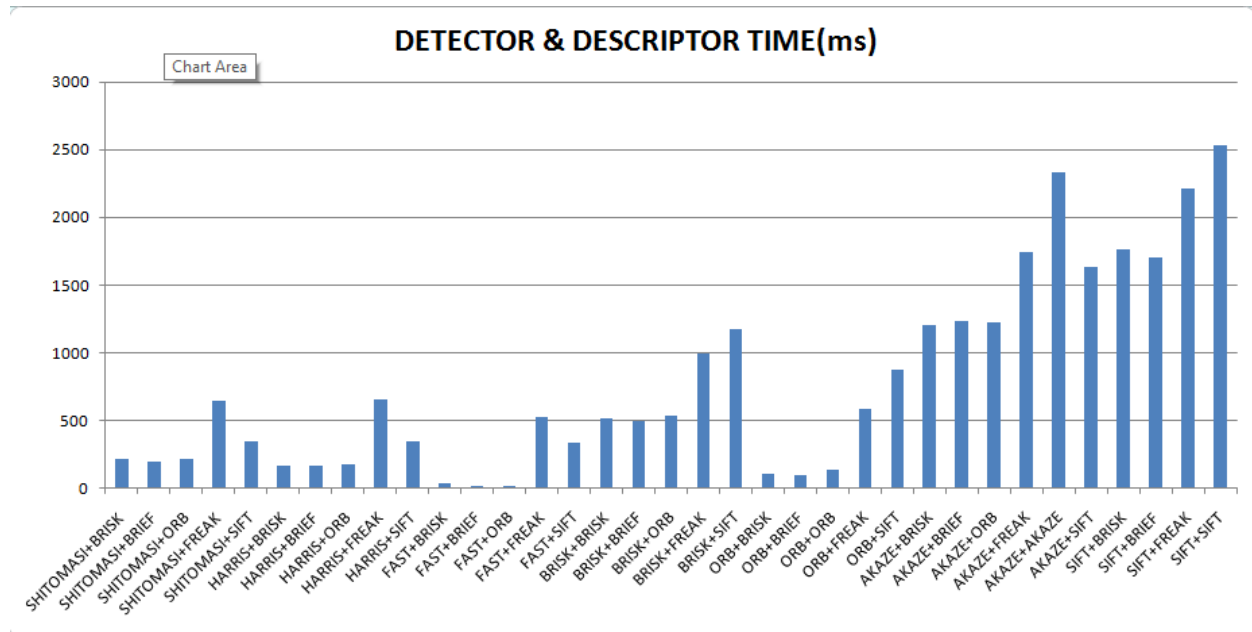
Algorithms vs Number of Keypoints detected on Preceding Vehicle:



Algorithms vs Number of Matches Key Points:



Algorithms vs Detector & Descriptor Time:



Conclusion:

I've assigned equal rank to each algorithm based on their performance. Overall, TOP 3 Detector/Descriptor combinations are

1. FAST + BRIEF
2. FAST + ORB
3. BRISK + BRIEF

A	B	C	D
ALGO COMBO	RANK_MatchedKpts	RANK_Time	Overall_RANK
FAST+BRIEF	12	1	13
FAST+ORB	13	2	15
BRISK+BRIEF	1	16	17
BRISK+BRISK	3	17	20
FAST+BRISK	18	3	21