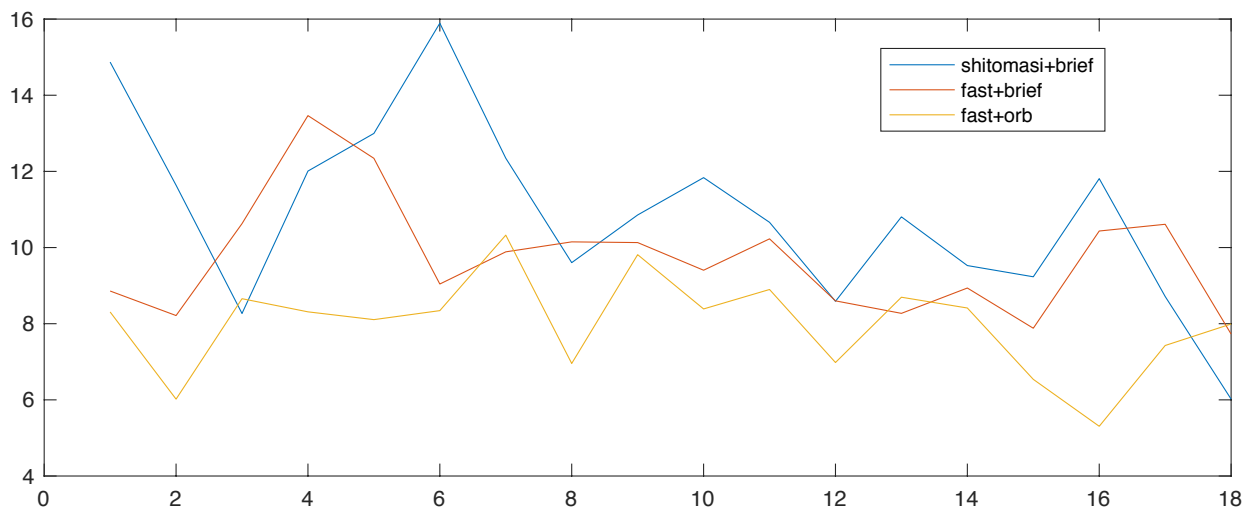# Camera TTC comparison

Based on the conclusion of the midterm project, the following detector-descriptor combinations were found to perform best over the dataset
• FAST with BRIEF
• FAST with ORB
• SHITOMASI with BRIEF

Hence, in this project these were used and the obtained TTC were compared. The results were as follows

As can be observed from the figure, the shitomasi and brief combination is very noisy. In addition it jumps up significantly on frame 6 and also on frames 10, 13 and 16. This is potentially dangerous since a high TTC estimate might make an autonomous vehicle accelerate. The fast with brief gives fairly smooth estimate whereas the fast and orb seem to give a conservative estimate which is safe for operation of autonomous vehicles.