MP 9: Time taken for detection and description

Descriptor/ Detector	Average time per image (s)
'AKAZE AKAZE'	0.08371804
'AKAZE BRIEF'	0.053933812
'AKAZE BRISK'	0.046491012
'AKAZE FREAK'	0.07823012
'AKAZE ORB'	0.062224064
'AKAZE SIFT'	0.0639744
'BRISK BRIEF'	0.030544035
'BRISK BRISK'	0.032566681
'BRISK FREAK'	0.06170011
'BRISK ORB'	0.03889772
'BRISK SIFT'	0.04534259
'FAST BRIEF'	0.005350976
'FAST BRISK'	0.002918937
'FAST FREAK'	0.042264423
'FAST ORB'	0.010854911
'FAST SIFT'	0.012227911
'HARRIS BRIEF'	0.016993719
'HARRIS BRISK'	0.012410047
'HARRIS FREAK'	0.04651936
'HARRIS ORB'	0.016092011
'HARRIS SIFT'	0.028392371
'ORB BRIEF'	0.021855704
'ORB BRISK'	0.015486793
'ORB FREAK'	0.057171561
'ORB ORB'	0.025343729
'ORB SIFT'	0.055335591
'SHITOMASI BRIEF'	0.00922459
'SHITOMASI BRISK'	0.009504493
'SHITOMASI FREAK'	0.039540253
'SHITOMASI ORB'	0.012221638
'SHITOMASI SIFT'	0.015566018
'SIFT BRIEF'	0.05612333
'SIFT BRISK'	0.05812207
'SIFT FREAK'	0.08684417
'SIFT SIFT'	0.10348016

Average Detection + Description times
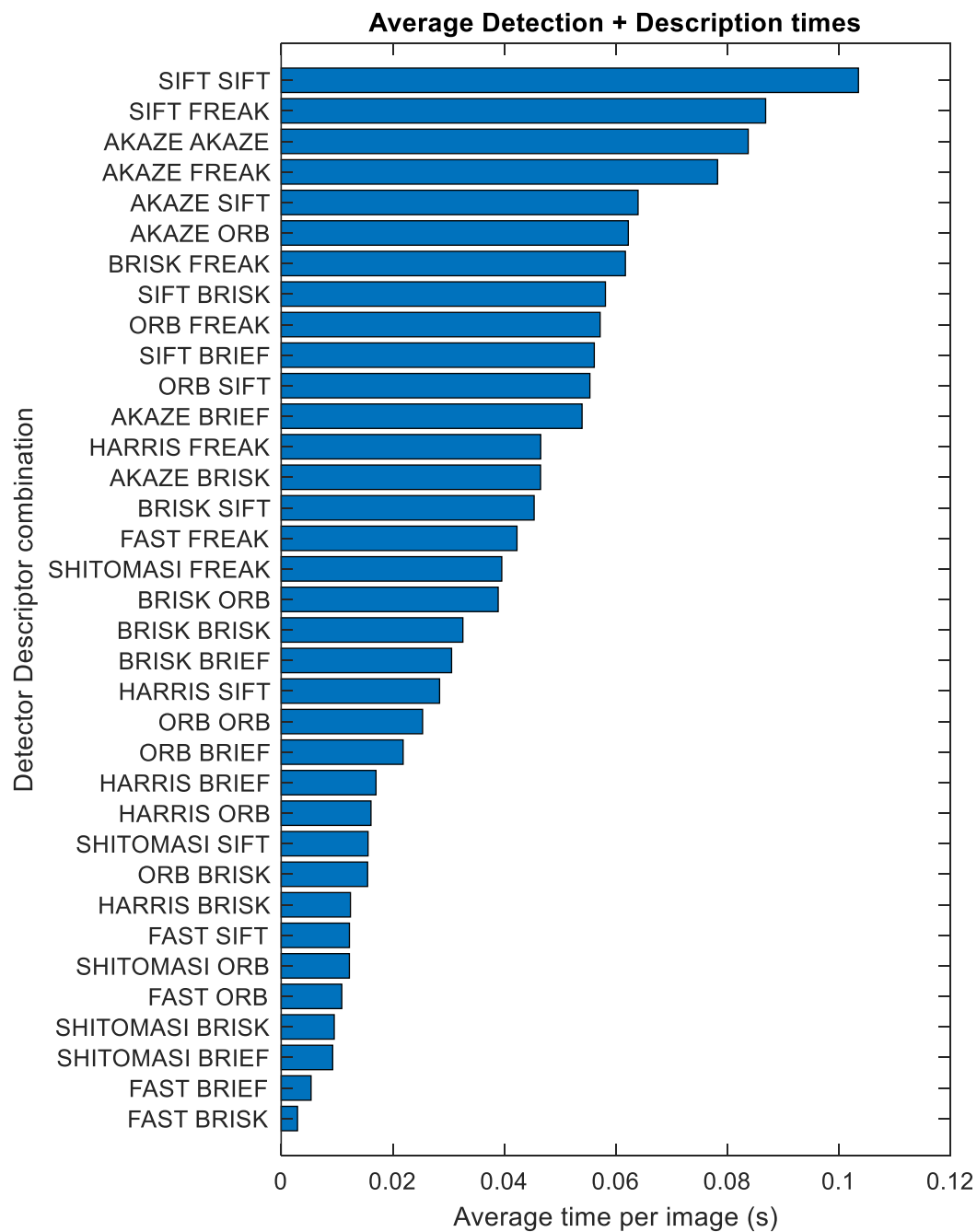
Based on the number of matched points (MP 8) and the average time taken for description and detection, my recommendations are

    i)   FAST BRISK

    ii)   FAST BRIEF

    iii)   FAST ORB

Shitomasi performs well (as far as speed is concerned), but the number of matched points are less (which is important for a robust TTC Estimate)