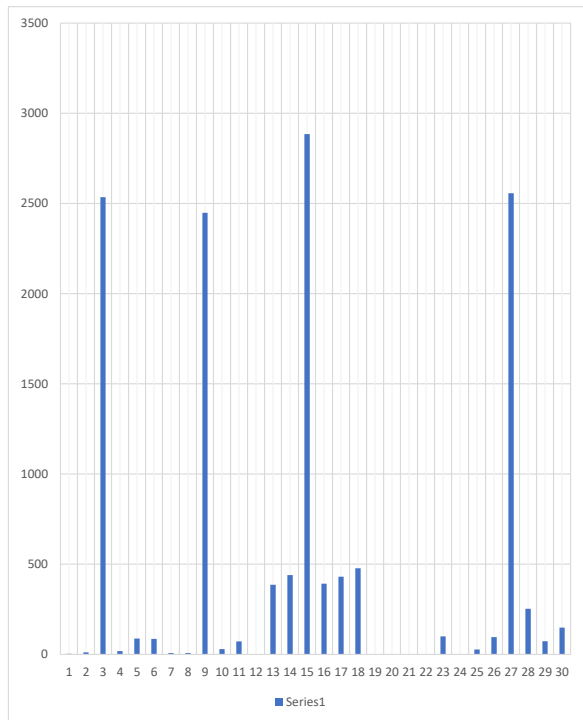


Detectors & Descriptors Combinations Performance Evaluation

ibrahim Essam Ibrahim Abdelmonem

ibrahim.essam1995@gmail.com

	Detector	Descriptor	Total Time in ms
1	HARRIS	BRIEF	3.89972
2	FAST	BRIEF	11.8853
3	BRISK	BRIEF	2535.11
4	ORB	BRIEF	18.1534
5	AKAZE	BRIEF	87.7723
6	SIFT	BRIEF	86.0535
7	HARRIS	ORB	7.40456
8	FAST	ORB	7.49867
9	BRISK	ORB	2448.21
10	ORB	ORB	29.71
11	AKAZE	ORB	71.6414
12	SIFT	ORB	-
13	HARRIS	FREAK	386.065
14	FAST	FREAK	439.765
15	BRISK	FREAK	2884.7
16	ORB	FREAK	391.994
17	AKAZE	FREAK	430.469
18	SIFT	FREAK	477.071
19	HARRIS	AKAZE	-
20	FAST	AKAZE	-
21	BRISK	AKAZE	-
22	ORB	AKAZE	-
23	AKAZE	AKAZE	100.171
24	SIFT	AKAZE	-
25	HARRIS	SIFT	26.927
26	FAST	SIFT	95.69
27	BRISK	SIFT	2557.22
28	ORB	SIFT	252.809
29	AKAZE	SIFT	73.3564
30	SIFT	SIFT	148.351



Based On Execution time and number of average matched keypoints, We can Recommend these top 3 combinations:

- 1 . HARRIS & BRIEF
2. FAST & ORB
3. FAST & BRIEF

Best 3 Combinations Based On Execution Time

1	HARRIS	BRIEF	3.89972
2	HARRIS	ORB	7.40456
3	FAST	ORB	7.49867
4	FAST	BRIEF	11.8853
5	ORB	BRIEF	18.1534
6	HARRIS	SIFT	26.927

Average Number of Matched KeyPoints
19
2
28
40
41
19