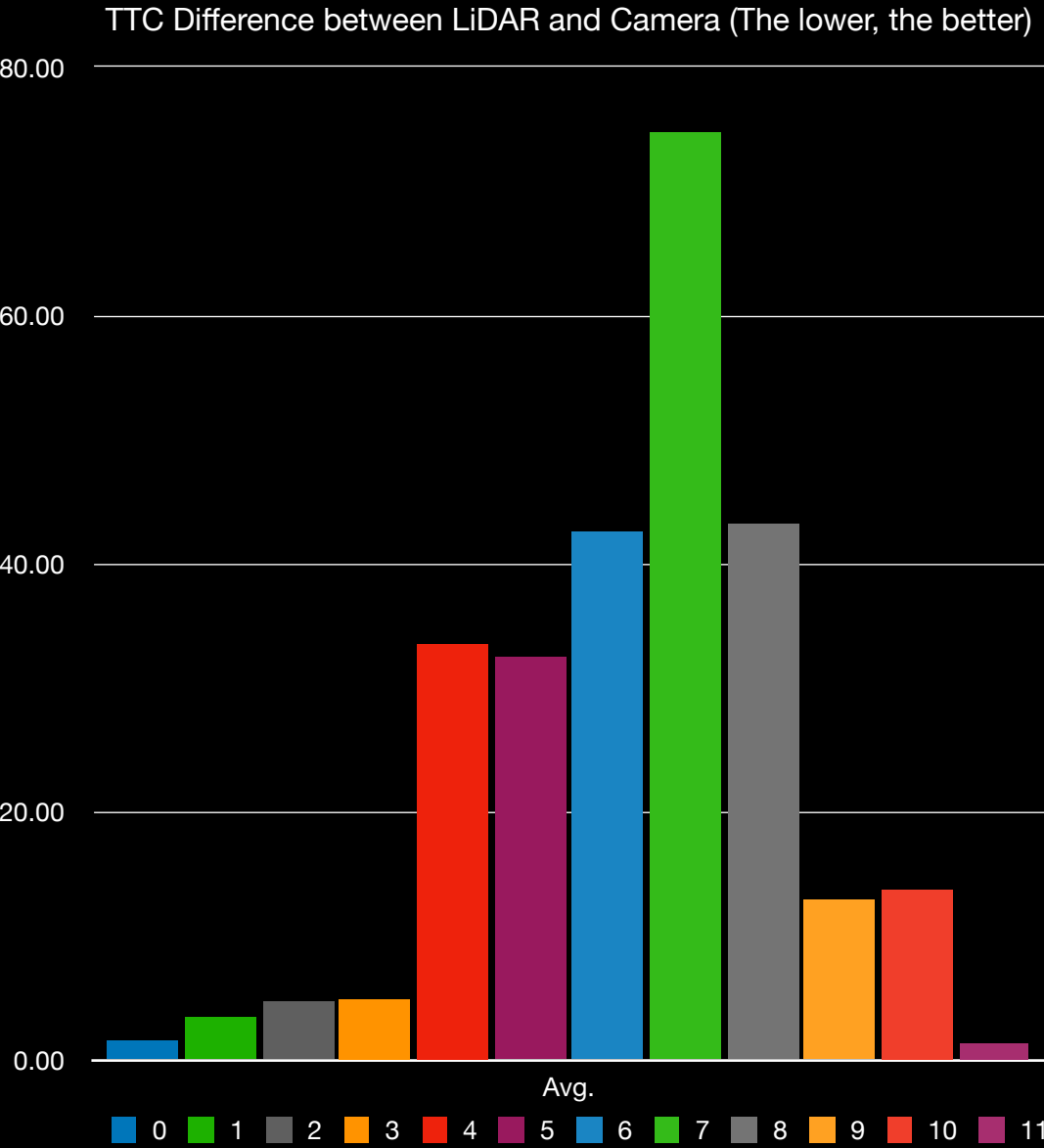


Combination's Id				TTC Camera													TTC LiDAR	
id	Detector	Descriptor	Matcher	frame	0	1	2	3	4	5	6	7	8	9	10	11	frame	Lidar
0	AKAZE	AKAZE	FLANN	1	12.51	14.89	13.66	13.68	125.05	15.20	16.02	15.30	10.42	15.86	14.69	11.81	1	12.97
1	BRISK	BRIEF	FLANN	2	14.21	13.39	29.37	30.07	33.91	79.566	100	100	100	17.95	12.58	12.87	2	12.26
2	BRISK	BRISK	BF	3	13.30	13.82	14.00	14.66	14.87	15.64	11.49	22.52	18.57	22.66	100	13.37	3	13.92
3	BRISK	BRISK	FLANN	4	15.08	14.06	20.78	18.03	145.81	100	97.11	26.68	12.14	100	15.20	17.33	4	14.89
4	FAST	BRISK	BF	5	14.85	26.88	32.47	41.29	100	100	100	100	100	15.70	100	13.78	5	14.51
5	FAST	FREAK	BF	6	14.84	15.31	17.29	16.709	100	39.29	100	100	56.09	19.84	30.91	12.25	6	12.30
6	ORB	ORB	BF	7	15.90	17.58	24.90	17.81	100	100	100	100	100	16.31	15.30	13.68	7	11.63
7	ORB	ORB	FLANN	8	13.94	17.51	16.64	19.03	22.92	12.85	12.08	100	12.653	12.89	0.33	14.20	8	16.34
8	ORB	FREAK	FLANN	9	14.91	16.91	13.97	14.60	15.15	13.52	100	100	100	11.39	13.41	13.54	9	15.89
9	SHITOMASI	BRIEF	BF	10	12.16	12.48	12.97	13.68	25.24	16.21	100	113.41	100	13.94	19.13	10.83	10	9.86
10	SHITOMASI	BRISK	BF	11	12.43	12.27	14.04	13.64	15.11	148.68	10.21	9.30	100	11.50	0.37	10.96	11	14.99
11	SIFT	SIFT	FLANN	12	11.72	17.30	13.04	11.13	38.84	74.215	100	100	100	100	10.99	10.70	12	10.10
				13	11.24	12.02	12.93	13.01	12.96	12.02	13.30	26.54	7.25	13.50	12.44	8.81	13	9.22
				14	10.83	12.41	12.88	12.24	12.50	12.50	26.77	100	100	11.57	10.78	9.22	14	10.97
				15	10.15	12.53	12.66	13.18	13.25	12.65	13.64	132.279	12.27	10.19	7.95	8.97	15	8.09
				16	9.88	13.252	11.13	11.27	0.20	10.98	14.03	22.33	7.35	10.18	10.29	8.54	16	8.81
				17	9.23	4.90	9.13	9.65	12.03	12.21	15.19	22.211	15.03	10.18	11.62	8.16	17	10.29
				18	9.34	10.42	11.11	12.29	12.42	12.63	27.51	358.32	-0.10	7.68	7.80	8.10	18	8.31

TTC Difference between LiDAR and Camera												
frame	0	1	2	3	4	5	6	7	8	9	10	11
1	0.46	1.92	0.69	0.70	112.08	2.22	3.05	2.33	2.56	2.88	1.71	1.16
2	1.95	1.12	17.10	17.81	21.65	67.30	87.74	87.74	87.74	5.69	0.32	0.60
3	0.62	0.10	0.08	0.75	0.95	1.73	2.42	8.61	4.65	8.75	86.08	0.55
4	0.19	0.83	5.89	3.14	130.92	85.11	82.23	11.80	2.75	85.11	0.32	2.45
5	0.34	12.38	17.97	26.79	85.49	85.49	85.49	85.49	85.49	1.19	85.49	0.72
6	2.54	3.01	4.99	4.41	87.70	26.99	87.70	87.70	43.79	7.54	18.61	0.05
7	4.27	5.95	13.26	6.18	88.37	88.37	88.37	88.37	88.37	4.68	3.67	2.04
8	2.40	1.17	0.30	2.69	6.58	3.49	4.26	83.66	3.68	3.45	16.01	2.13
9	0.98	1.02	1.92	1.29	0.74	2.37	84.11	84.11	84.11	4.50	2.48	2.35
10	2.30	2.63	3.12	3.83	15.38	6.35	90.14	103.55	90.14	4.08	9.27	0.97
11	2.56	2.71	0.95	1.34	0.12	133.69	4.78	5.69	85.01	3.49	14.62	4.03
12	1.62	7.20	2.94	1.03	28.74	64.12	89.90	89.90	89.90	89.90	0.89	0.60
13	2.02	2.79	3.71	3.78	3.74	2.80	4.08	17.31	1.97	4.27	3.22	0.41
14	0.13	1.44	1.92	1.27	1.53	1.53	15.80	89.03	89.03	0.60	0.19	1.75
15	2.06	4.44	4.57	5.09	5.15	4.56	5.54	124.18	4.18	2.09	0.14	0.87
16	1.07	4.44	2.32	2.45	8.61	2.17	5.22	13.51	1.46	1.36	1.48	0.27
17	1.07	5.39	1.16	0.64	1.74	1.91	4.90	11.92	4.73	0.11	1.33	2.13
18	1.03	2.11	2.80	3.98	4.11	4.32	19.20	350.01	8.41	0.63	0.51	0.21
	0	1	2	3	4	5	6	7	8	9	10	11
Avg.	1.53	3.37	4.76	4.84	33.53	32.47	42.50	74.72	43.22	12.80	13.69	1.29



Top 3 Combinations				
Rank	id	Detector	Descriptor	Matcher
1	11	SIFT	SIFT	FLANN
2	0	AKAZE	AKAZE	FLANN
3	1	BRISK	BRIEF	FLANN