

Content-Based Image Retrieval

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Chapter 1

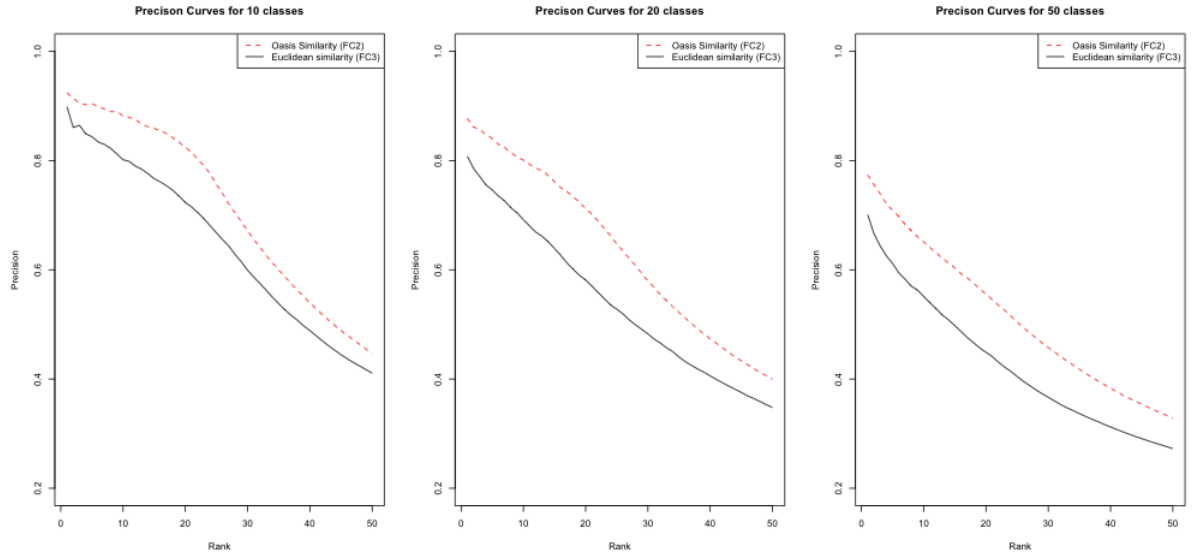
Performance Evaluation

1.1 Evaluation on Caldech datasets

Figure 1.1: Image Retrieval Performance on Caldech256

Similarity		Euclidean			Oasis		
Features		FC1	FC2	FC3	FC1	FC2	FC3
10 classes	P(1)	0.8883	0.8883	0.8985	0.9188	0.9239	0.8985
	P(10)	0.7244	0.6919	0.8015	0.897	0.8817	0.865
	P(50)	0.3419	0.321	0.4107	0.4454	0.4467	0.4462
	MAP	0.5583	0.5297	0.6485	0.7146	0.7164	0.713
20 classes	P(1)	0.808	0.776	0.808	0.8507	0.8773	0.856
	P(10)	0.6275	0.6088	0.6917	0.7787	0.8008	0.7845
	P(50)	0.2973	0.2755	0.348	0.3876	0.3999	0.3863
	MAP	0.4825	0.4593	0.5419	0.614	0.6363	0.6163
50 classes	P(1)	0.6978	0.6855	0.7009	0.7235	0.7739	0.7143
	P(10)	0.5089	0.4906	0.5512	0.6054	0.6511	0.6011
	P(50)	0.2294	0.2156	0.2727	0.3017	0.3286	0.3048
	MAP	0.3814	0.3659	0.4259	0.4717	0.5143	0.4728

Figure 1.2: Precision Curves on Caltech256

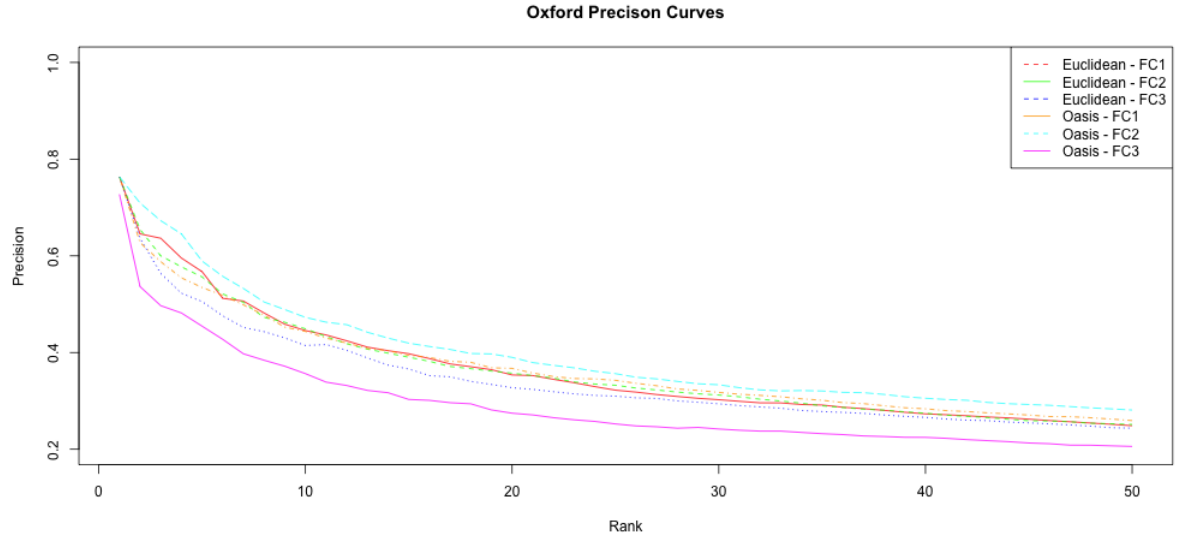


1.2 Evaluation on Oxford datasets

Figure 1.3: Image Retrieval Performance on Oxford

Similarity	Euclidean			Oasis		
Features	FC1	FC2	FC3	FC1	FC2	FC3
P(1)	0.7636	0.7636	0.7636	0.7636	0.7636	0.7273
P(10)	0.4455	0.4491	0.4145	0.4436	0.4727	0.3564
P(50)	0.2487	0.2513	0.2436	0.2593	0.2811	0.2058
MAP	0.3651	0.3649	0.345	0.3693	0.3957	0.2934

Figure 1.4: Precision Curves on Oxford



1.3 Evaluation on Paris datasets

Figure 1.5: Image Retrieval Performance on Paris

Similarity	Euclidean			Oasis		
Features	FC1	FC2	FC3	FC1	FC2	FC3
P(1)	0.8909	0.8909	0.8909	0.8909	0.9091	0.8727
P(10)	0.8382	0.8491	0.8364	0.8127	0.8491	0.7855
P(50)	0.7109	0.712	0.6738	0.6909	0.7633	0.6564
MAP	0.7948	0.7935	0.7679	0.7635	0.8172	0.7355

Figure 1.6: Precision Curves on Paris

