Learning query-dependent prefilters for scalable image retrieval

Paper ID 1905

Supplementary material
Prefiltering results (for $\tau = 0.005$)

query image

relevant images in the filter set
Prefiltering results (for $\tau = 0.005$)

Each row shows results retrieved by a different selected visual phrase.
Prefiltering results (for $\tau = 0.005$)

decision stumps used in each phrase
(with color-coded visual words)
Here, as in most of our results, each selected phrase retrieves a different set of relevant results.
Prefiltering results (for $\tau = 0.005$)
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Prefiltering results (for $\tau = 0.005$)

- # > 7
- # > 3
- # > 4
- # < 3

- # > 2
- # > 8
- # > 7
- # < 3

- # > 13
- # > 7
- # > 26
- # < 26
- # < 3
Prefiltering results (for $\tau = 0.005$)
Test set distribution of postings list length (PLL)

- The PLL is the total cost of running the prefilter
- Our PLL distribution on the test set matches closely the bound enforced on the training set
- See Figure 4 of the paper for the distribution of filter set sizes