

A cascade is useful when: 1: Most input belong to "negative" class. 2: Many can be discarded easily. Then, a small computation time and good recognition rate can be reached.

Choices when building a cascade: 1: Weak classifier familly.

- 2: Number of cascade levels.
- 4: Etc ...

Method: Build boosted classifier with desired performance. Slice it into a near-optimal cascade.



Advantages of slicing a boosted classifier: 1: A single classifier is trained: a single 2: No design choices concerning size or performance of intermediate levels.

Idea: schedule tests along the computation of weak classifiers, so that comp. cost is minimized, while preserving output on a given dataset.



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# False positives

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