

186. SEARCH ENGINE FOR IMAGE RETRIEVAL AND RERANKING USING SEMANTIC SIGNATURES

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Web-based Image search with re-ranking is based on the given query keyword. Normally people used the common search engines for retrieving the image such as yahoo, google,bing. In that time search engines displayed the large no of images. Users selects the particular image from the collection of images. A major challenge is query keyword ambiguity. For example, the query keyword 'Java' can have different semantic meanings, like 'Programming Language', 'Island', 'Coffee'. Different or highly varied image searching from the web is difficult and inefficient. We propose a novel image re-ranking frame work ,which automatically in offline mode learns different semantic spaces for different query keywords. The visual features of images are projected into their related semantic spaces to get semantic signatures. At the online stage, images are re-ranked by comparing their semantic signatures obtained from the semantic space specified by the query keyword and the click-through data. The proposed Click-Boosting Query-Specific Semantic Signatures significantly improve both the accuracy and efficiency of image re-ranking. I focused on reranking the web images with click-through data and semantic signatures.

Index Terms—Image search, image re-ranking, semantic space, semantic signature, keyword expansion, click-boosting.

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