

IMPROVING THE EFFICIENCY OF IMAGE RETRIEVAL BASED ON LEARNING THE DISTANCE MEASURE WITH RELEVANCE FEEDBACK

ABSTRACT

The paper presents an effective method to learn the distance measure between images based on two processing phases: filter high-distinct images with query image and combine the feature sets of images. Our proposed algorithm calculates the non-linear distance measure of images, using the Fuzzy integral and based on the relevance feedback. The experiments have demonstrated that the performance of content-based image retrieval increases significantly when using the proposed measure. In the next study, we will continue the research direction to train and determine the measure on any image.

Keywords: Content-based image retrieval, relevance feedback, fuzzy measure.

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