Contribution ID: 54

Type: Poster Presentation

## 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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Track Classification: Track 10: Artificial Intelligence (AI)