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Research Article

Improving Quality of Content Based Image Retrieval with Graph Based Ranking

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ABSTRACT
Image retrieval has become very important aspect in the applications of real world. The rationale behind this is that image databases are growing rapidly and there are numerous applications that need to store and retrieve images. Content Based Image Retrieval (CBIR) has been around for many years. It is a method that supports query by example. However, this method has limitations when it is based on the features of input image. Retrieval of unrelated images is an important problem to be solved. Towards this end, many techniques came into existence. In this paper we provide an improved relevance feedback method that can help in improving quality of image retrieval. We proposed a methodology with underlying algorithm to achieve this. We built a prototype application to demonstrate the proof of concept. Our empirical results reveal that the proposed methodology is able to improve quality in image retrieval.

Key words: Content based image retrieval, ranking, query by example.

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