



Research Article



## Image Tag Ranking for Efficient Matching and Retrieval

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### ABSTRACT

Image annotation has become important research area as plethora of images are

available over Internet and social media. Working with those images or retrieving those images is very essential for many applications in the real world. In this context, it is important to have semantic annotations to images for better search performance. The annotations or tags are associated with images in order take advantage of them while searching for images. Many existing studies focused on the image annotations as multi-label classification problem. The issue with this approach is that it needs more number of training images. In order to overcome this problem, in this paper, we proposed a framework that can reduce number of training images required. We built an approach that exploits the strength of tag ranking in the context of image retrieval. The tags associated with the images are identified as relevant and then ranked in descending order in order to ensure that highly satisfied images come in the image search. We built a prototype application to demonstrate the proof of concept. The empirical results revealed that the proposed system is working fine with image retrieval and tag ranking.

**Keywords:** Image annotation, tag ranking, image retrieval.

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