

DCLab at MediaEval2014 Retrieving Diverse Social Images Task

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ABSTRACT

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1. INTRODUCTION

Many potential tourists search on Web tries to find more information about a place he (or she) is potentially visiting. These persons have only a vague idea about the location, knowing the name of the place. Our aim is to help with these persons by providing a set of photos, as summary of the different views of the location. In the official challenge (Retrieving Diverse Social Images at MediaEval 2014: Challenge, Dataset and Evaluation) [1] a ranked list of location photos retrieved from Flickr (using text information) is given, and the task is , to refine the results by providing a set of images that are in the same time relevant and provide a diversified summary. The diversity means that images can illustrate different views of the location at different times of the day/year and under different weather conditions, creative views, etc. The refinement and diversification process can be based on the social metadata associated with the collected photos in the data set [2] and/or on the visual characteristics of the images. The initial results are typically noisy and redundant because of social media platform [3], where the large variety comes from very different users. The goodness of the refinement process can be measured by precision and diversity [5]. Earlier we have solved a very similar problem by diversification of initial results using clustering [4], but our solution was focused on only diversification. The largest development of this paper is that both of relevance and diversity are in the centre.

2. REORDERING SYSTEM

We took five approaches to generate the final reordering of the initial search result. These required five different systems that share similar components. All the systems take the initial ordering as the input along with the visual feature descriptors and the textual descriptors corresponding to the images.

2.1 Relevance Scoring

2.2 Clustering

2.3 Ordering

3. RESULTS AND CONCLUSION

4. ACKNOWLEDGMENTS

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