

{tag}

Electronics, Signals and Communication  
© 2018 by IJCA Journal

NCESC 2017 - Number 2

Year of Publication: 2018

{/tag}

IJCA Proceedings on National Conference on

Authors:

Rashmi Police Patil

Anita Dixit

{bibtex}ncesc2017056.bib{/bibtex}

### **Abstract**

To facilitate the ease of searching the images in social websites through tags, a social re-ranking system is proposed for tag-based image retrieval considering the image's relevance and diversity. The input images that are tagged by different social users are taken from social websites. This paper includes, sorting the input images based on inter user re-ranking. Users having higher contribution to the given query rank higher, Intra-user re-ranked on the ranked user's image set. The most relevant image from each user's image set is selected. An inverted index structure is built for the social image dataset to accelerate the searching process.

ences

- Xueming Qian, Member, IEEE, Dan Lu, and Xiaoxiao Liu "Tag Based Image Search by Social Re-ranking"; IEEE TRANSACTIONS ON MULTIMEDIA, MM-006206, 12 May 2016.
- X. Qian, D. Lu, X. Liu, "Tag based image retrieval by user-oriented ranking"; Proceedings of International Conference on Multimedia Retrieval. ACM, 2015.
- S. Jiang, X. Qian, J. Shen, Y. Fu, T. Mei. Author Topic Model-Based Collaborative Filtering for Personalized POI Recommendations. IEEE Transactions on Multimedia 17(6): 907-918 (2015).
- X. Li. Tag relevance fusion for social image retrieval. Multimedia Systems, 1-12, 2014.
- L. Chen, S. Zhu, Z. Li. Image retrieval via improved relevance ranking. In Control Conference, pp. 4620-4625, IEEE, 2014.
- S. Lee, W. D. Neve. Visually weighted neighbor voting for image tag relevance learning. Multimedia Tools and Applications, 1-24, 2013.
- G. Agrawal, R. Chaudhary. Relevancy tag ranking. In Computer and Communication Technology, pp. 169-173, IEEE, 2011.
- D. Liu, X. Hua, L. Yang, M. Wang, and H. Zhang. Tag ranking. Proceedings of the IEEE International Conference on World Wide Web, 2009: 351-360.
- L. Chen, S. Zhu, Z. Li. Image retrieval via improved relevance ranking. In Control Conference, pp. 4620-4625, IEEE, 2014.
- X. Zhu, W. Nejdl. An adaptive teleportation random walk model for learning social tag relevance. In Proceedings of the 37th international ACM SIGIR conference on Research & development in information retrieval (pp. 223-232), ACM, 2014.
- J. Yu, D. Tao, M. Wang. Learning to Rank Using User Clicks and Visual Features for Image Retrieval. IEEE Trans. Cybern. (2014).
- X. Hua, M. Ye. Mining knowledge from clicks: MSR-Bing image retrieval challenge. In Multimedia and Expo Workshops (ICMEW), 2014 IEEE International Conference on (pp. 1-4).
- L. Chen, D. Xu, I. Tsang. Tag-based web photo retrieval improved by batch mode re-tagging. In Computer Vision and Pattern Recognition, 2010 IEEE Conference on (pp. 3440-3446). IEEE.
- S. Lee W. D. Neve. Visually weighted neighbor voting for image tag relevance learning. Multimedia Tools and Applications, 1-24, 2013.
- K. Yang, M. Wang, X. Hua, and H. Zhang. Social Image Search with Diverse Relevance Ranking. Proceedings of the IEEE International Conference on Magnetism and Magnetic Materials, 2010:174- 184.
- X. Li, C. Snoek, and M. Worring. Learning tag relevance by neighbor voting for social image retrieval. Proceedings of the ACM International Conference on Multimedia information retrieval, 2008: 180-187.
- Xueming Qian, Dan Lu, and Xiaoxiao Liu. Tag Based Image Search by Social Re-ranking. IEEE TRANSACTIONS ON MULTIMEDIA, 2016.

Computer Science

**Index Terms**

Information Science

**Keywords**

Social Media Tag-based Social Clues Inverted Index Social Re-ranking.