International Engineering Journal For Research & Development
Vol.2
Issue 6

E-ISSN NO:-2349-0721

Impact factor : 2.25

A REVIEW ON - BFRIEND NETWORK TO SHARE PERSONALIZED GEO-SPECIFIC PHOTO WITH TAG RECOMMENDATION

Raksha P Shinde[1], Prof. Saiyad Sharik Kaji[2]
[1]Computer Science & Engineering, RTMNU University, W.C.E.M, Nagpur, Maharashtra, India
[1]rakshashinde222@gmail.com , [2]sharik.kaji@gmail.com

ABSTRACT:

Social tagging becomes increasingly important to organize and search large-scale community-contributed photos on social websites. The main aspect of the method that has mainly focused on the personalized tag recommendation task and try to identify user-preferred, geo-location-specific as well as semantically relevant tags for a photo by leveraging rich contexts of the freely available community-contributed photos with the help of web server. Social tagging becomes increasingly important to organize and search large-scale community-contributed photos on social websites. The interest point is the The Bfriends, a location aware ad- hoc social networking platform based on the face book social graph. The Bfriend platform is used by mobile users equipped with Smartphone's after users install and activate Bfriend client application, they are able to receive push notification with the help of Mobile application. We proposed a mobile application for connecting the social network by tagging photos.

Keywords:-Geo-location preference, personalized tag recommendation, user preference, Befriend Network.

1 INTRODUCTION

Due to the large use of camera devices and mobile phones, recent years have explosive growth of personal photos with very large context like tags, geo location and visual attributes like colors and textures. As the part of internet many photo-sharing websites, such as Flicker and Picasa facilitate millions of users to upload and share their personal multimedia photos and data by their smart phones or with the help of internet access devices. On other side, the large amount of community-contributed photos increases drastically whether on personal devices or on the social websites. It is challenging and promising to exploit the overwhelming amount of context data for multimedia applications, such as retrieval, annotation and recommendation. Among these applications, assigning proper tags to photos is the crucial task. Obviously, fully manual tag assignment is very time-consuming and impractical due to the massive photos and the limited screen size of the mobile devices. To make it easier, tag recommendation methods are proposed to suggest some relevant tags to a given photo and allow users to select their preferred tags, which cannot only ease the burden for users to upload and share their photos on social website, but facilitate users to tag and organize their personal images on mobile devices. With the help of Bfriend network we can find "what does Bfriend do","how does Bfriend work" and "what does Bfriend have to offer to end-users".Networks provide an alternative, temporary and goal-oriented medium for communication and interaction among users. This kind of social networks represents an innovative platform for handling ego-user current social relationships, as well as provides an effective solution for developing new social relationships.

2 LITERATURE REVIEW

Jing Liu, Zechao Li, Jinhui Tang,Yu Jiang This is the main paper of this research, this paper totally focus on the tagging on photos on the social websites. In this work, we propose to mine the personalized tags for new updated photos using users' tagging histories and geographic information. We propose a new subspace learning Algorithm to individually discover the user preference and the finally, the most frequent tags in

the relevant photos are suggested to users. Extensive experiments have been conducted to validate the effectiveness of our personalized tag recommendation method.

J.Tang ,Q.Chen,M.Wang,S.Yan,T.S.Chau and R.Jain This paper totally focused on the labeling of the image tagging system by human depending on the optimization.

Y.Song ,L.Zang and C.L.Giles This paper designs the algorithm for Automatic tagging system by using the recommendation algorithm. In this paper, we address the issue of tag recommendation from a machine learning perspective of view. From our empirical observation of two large-scale data sets, we first argue that the user-centered approach for tag recommendation is not very effective in practice.

Y.Shen and J.Fan This paper concentrates on the loosely tagged images and defines their relationship among the objects.

T. L. Berg , A. C. Berg and J.Shih We find the automatic attributes and character from the noisy web images and convert this image into proper format. This paper explores automatic discovery of attribute vocabularies and learning visual representations from unlabeled image and text data on the web. For example, our system makes it possible to start with a large number of images. Recognizing attributes of objects in images can improve object recognition and classification as well as provide useful information for organizing collections of images.

3 EXISTING SYSTEM

3.1 Generic tag recommendation

Generic tag recommendation methods are to predict the same list of tags for the same photo, i.e., it is independent of the user factor. Chen *et al.* [5] proposed an automatic tag recommendation approach that directly predicts the possible tags with models learned from training data. Shen *et al.* [3] proposed a multi-task structured SVM algorithm to leverage both the inter-object correlations and the loosely-tagged images. Images are annotated purely based on image visual content. For an image, it first finds its top- neighboring images from the community image set and then selects the most frequent tags in the neighbor set as the annotated results. In [6], two approaches, based on Poisson Mixture Models and Gaussian process respectively, are proposed to make effective and efficient tag recommendations. In [7], tag concepts derived based on tag co-occurrence pairs are indexed as textual documents. The candidate tags associated with the matching concepts, which are retrieved with the query of user-given tags of an image, are recommended.

3.2 Personalized tag recommendation

Personalized tag recommendation has attracted significant attention recently. In [22], tag recommendation is obtained using both a Naive Bays classifier on user tagging history and TF-IDF based global information. In [8], tag co-occurrence for photos is calculated using tags appearing both in the tagging history of a user and in Flicker website, and used to generate recommended tags. Web browsing behavior of a user is exploited to suggest the tags not only to be added to but also to be deleted from the original tags of a photo in Flicker. In, image tag recommendation is formulated as a maximum a posteriori problem using a visual folksonomy. With the assumption that favorite images and their associated tags indicate the visual and topical interests of a user, personalized favorite images and their context are used to perform personalized image tag recommendation A simple personalized image annotation method is designed in, which simply annotates untagged images with the most frequent tags in the user tagging history.

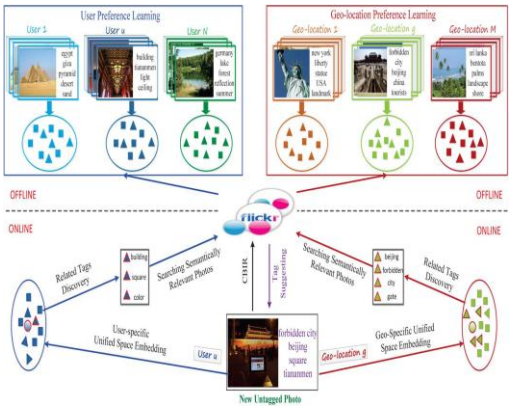

Fig:-1 the framework of the personalized tag recommendation algorithm.

4 PROPOSED SYSTEM

In proposed system we used two learning user preference learning and geo location learning with

web server. The basic term in system architecture is, what background we are giving to our system, i.e. platform on which system going to be access or we can say that operating system for our application. Because this application is focuses on how the ease personalized photo tagging process by exploiting the community contributed multimedia data with rich contextual information. The proposed framework is contains two primary parts the offline and online processes the offline process is made up of three subdivisions: data collection, user preference learning and geo-specific preference learning. We address the personalized tag recommendation task with the help of overwhelming community-contributed information, such as user tag and geo-location. Preprocessing will be done by two filter i.e. Median filter, Poisson Mixture model and Gaussian Process.

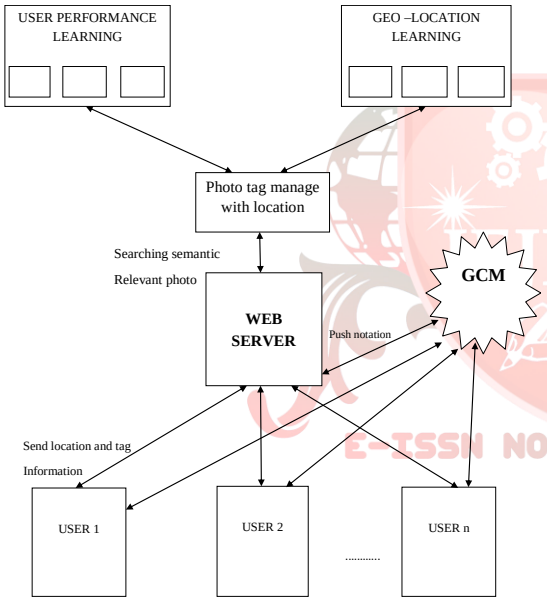

Fig:-2 System Architecture for proposed system

5 CONCLUSION

In this paper we propose to mine the personalized tags for new updated photos using users tagging histories and geographic information. We propose a new subspace learning algorithm to individually discover the user preference and the geo-location preference towards tags.This two preferences are basic part of this tags.In the proposed method, the visual features and text features of photos are mapped into a unified space by three transformation matrices: two for visual features and one for text features. Our system will provide Bfriend network to share personalized geo-specific photo with tag recommendation with the push alert system for geo-location based photo. Withthe help of Mobile Application based on Android Operating System.

REFERENCES

1.Jing Liu, Zechao Li, Jinhui Tang, Yu Jiang, and Hanqing Lu, Senior Member, IEEE" Personalized Geo-Specific Tag Recommendation for Photos on Social Websites"2014

2. J. Tang, Q. Chen, M.Wang, S. Yan, T.-S. Chua, and R. Jain, "Towards optimizing human labeling for interactive image tagging," ACMTrans. Multimedia Comput., Commun., Applicat, vol. 9, no. 4, pp. 29: 1–18, 2013.

3. Y. Song, L. Zhang, and C. L. Giles, "Automatic tag recommendation Algorithms for social recommender systems," 2011.

4. A. Sun, S. S. Bhowmick, and J.-A. Chong, "Social image tag recommendation by concept matching," in Proc. ACM Multimedia, 2011.

5. Y. Shen and J. Fan, "Leveraging loosely-tagged images and inter-object Correlations for tag recommendation," 2010

7. T. L. Berg, A. C. Berg, and J. Shih, "Automatic attribute discovery and characterization from noisy web images," in Proc. ECCV, 2010, pp. 663–676, 2010

8. X. Li, C. Snoek, and M.Worring, "Unsupervised multi-feature tag relevance learning for social image trieval," in Proc.CIVR, 2010.

9. S. Lee,W. D. Neve, K. N. Plataniotis, and Y. M. Ro, "Map-based image tag recommendation using a visual folksonomy," Pattern Recognit. Lett. vol. 31, no. 9, pp. 976–982, 2010.

10. N. Sawant, R. Datta, J. Li, and J. Wang, "Quest for relevant tags using local interaction networks and visual content," in *Proc.* ACM MIR, 2010.

11. T. Takashita, T. Itokawa, T. Kitasuka, and M. Aritsugi, "Tag recommendationfor flickr using web browsing behavior," in Proc. ICCSA, 2010.

12. A. Nanopoulos, D. Rafailidis, and Y. Manolopoulos, "Musicbox: Personalizedmusic recommendation based on cubic analysis of social tags," IEEE Trans. Audio, Speech, Lang. Process., vol. 18, no. 2, pp. 407–412, 2010.

13. F. Nie, H. Huang, X. Cai, and C. Ding, "Efficient and robust feature selection via joint l21 norms minimization," in Proc. NIPS, 2010.
14. T. Mei, W. H. Hsu, and J. Luo, "Knowledge discovery from community- contributed multimedia," IEEE Multimedia, vol. 17, no. 4, pp. 16–17, Oct. 2010.
15. J. Kleban, E. Moxley, J. Xu, and B. Manjunath, "Global annotation on georeferenced photographs," in Proc. CIVR, 2009.
16. P. Serdyukov, V. Murdock, and R. van Zwol, "Placing Flickr photos on a map," in Proc.ACM SIGIR, 2009.

E-ISSN NO:2349-0721