

probability of finding similar with active user in his/her local area.

5. Evaluation

Based on the proposed method, here conducted several experiments according to different factors. Here the focus is on the analysis of the following factors;

- 1) Do correlation between location of QoS affect the framework.
- 2) Change the sparsity condition.
- 3) Clustering algorithm affects the number of generated users

In addition experiment results are generated with comparison

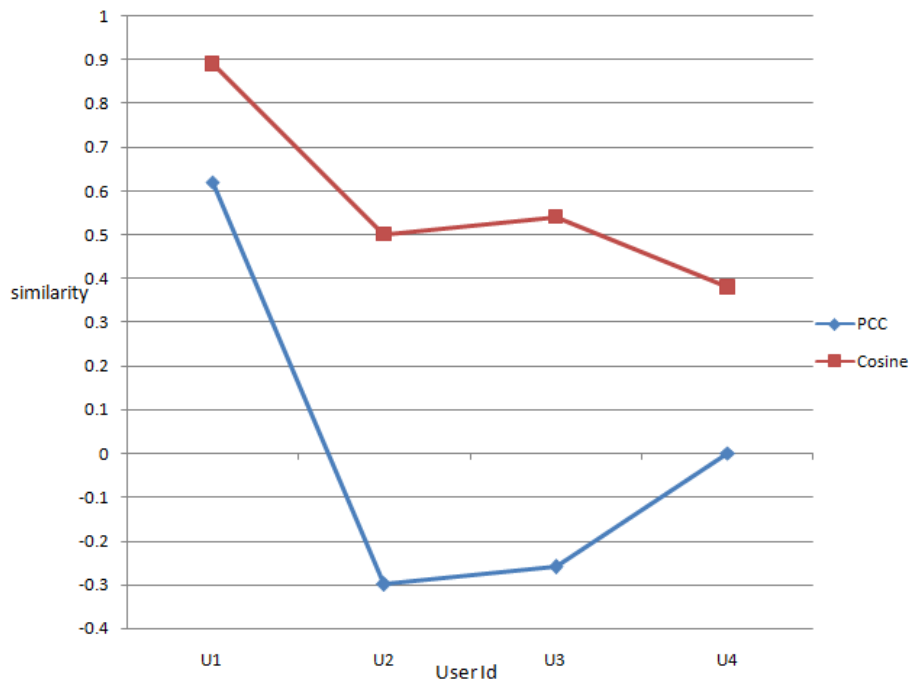


Figure 2: Performance comparison between PCC and Cosine similarity Computation

6. Conclusion

Here represents a collaborative filtering method for location aware web service recommendation and community generation framework. Much improved QoS prediction performance is aiming from this work. For that, take in to account, the personal QoS characteristics from both user and web service cluster. Achieved the incorporate locations of both web services and users into similar neighbor selection for both web services and users.

Experiments on previous techniques (especially on PCC calculation) indicate that our method significantly outperforms previous CF-based web service recommendation methods.

7. Acknowledgements

First of all I thank the Almighty of God for giving me the strength to venture for such an enigmatic logical creation in a jovial way. I express my sincere thanks to Dr. Mary Thomas, the principal of my college for providing me the facilities to complete my paper work successfully. I am much grateful for providing the best facilities and environment to do paper. It is

test that done between PCC calculation and Cosine Similarity Calculation. As shown in Figure 2 the graph represent the PCC based similarity range and the Cosine Similarity based similarity range. For plotting graph use similarity values as y-coordinates factor and user id as x-coordinate factor. Similarity measurement is taken by each user's generated PCC value and same user's Cosine similarity value. When analyzing both graphs for each user the cosine similarity value is higher than PCC similarity value. Hence we can conclude that using Cosine Similarity computation gives more accurate similarity results so that service user gets a fast recommendation from the proposed system.

with deep sense of gratitude that I express my heartfelt thanks and indebtedness to Prof. Vinodh P. Vijayan Head of Department, Computer Science and Engineering Section, for his inspiration.

I would like to thank my co-author Ms. Sreenimol K.R., Asso. Prof in Computer Science and Engineering Department for her valuable help, sincere guidance, timely suggestions and constant encouragement. Many others have helped me in preparing and processing the research paper in many ways. It is with pleasure that I acknowledge the help received from all the teachers and staff members of the Computer Science and Engineering Department. Finally, I express my sincere thanks to all my friends, parents for their kind presence, support and interest to me.

References

- [1] Jianxun Liu, Mingdong Tang, Member, IEEE, Zibin Zheng, Member, IEEE, Xiaoqing (Frank) Liu, Member, IEEE, Saixia Lyu "Location-Aware and personalized collaborative Filtering for Web service Recommendation "in IEEE Transactions on Services Computing, Manuscript val x , no xx, 2015

- [2] Keman Huang, Student Member, IEEE, Yushun Fan, and Wei Tan, Senior Member, IEEE “Recommendation in an Evolving Service Ecosystem Based on Network Prediction” “IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING, VOL. 11, NO. 3, JULY 2014
- [3] “Web Service Recommendation via Exploiting Location and QoS information”, Xi Chen, Zibin Zheng, Member, IEEE, Qi Yu, Member, IEEE, and Michael R. Lyu, Fellow, IEEE, IEEE Transactions on Parallel And distributed systems, VOL. 25, NO. 7, JULY 2014
- [4] S.Suria and K.Palanivel“An Enhanced Web Service Recommendation System w Ranking with QoS Information” International Journal of Emerging Trends & Technology in Computer Science (IJETTCS) Volume 4, Issue 1, January-February 2015
- [5] Y. Ni, Y. Fan, K. Huang, J. Bi, W. Tan. Negative-Connection-Aware Tag-Based Association Mining and Service Recommendation. ICSOC 2014: 419-428. S.P. Bingulac, “On the Compatibility of Adaptive Controllers,” Proc. Fourth Ann. Allerton Conf. Circuits and Systems Theory, pp. 8-16, 1994. (Conference proceedings)
- [6] W.Lo,J.Yin,S.Deng , “An Extended Matrix Factorization Approach for QoS Prediction in Service Selection”, in Proceedings of In-ternational Conference on Services Computing, Hawaii, USA, June 2012, pp. 162-169. J. Williams, “Narrow-Band Analyzer,” PhD dissertation, Dept. of Electrical Eng., Harvard Univ., Cambridge, Mass., 1993. (Thesis or dissertation)
- [7] D. Meyer, L. Zhang, and K. Fall , “Report from the IAB workshop on routing and addressing,” RFC 4984, 2007.
- [8] Z. Zheng, H. Ma, M. R. Lyu, and I. King “QoS-Aware Web Service Recommendation by Collaborative Filtering”, IEEE Trans. on Services Computing, 2011, vol.4, no.2, pp.140-152.
- [9] M. Deshpande and G. Karypis, “Item-Based Top-N Recommendation,” ACM Trans. Information System, 2004, vol. 22, no. 1, pp. 143-177.
- [10] http://en.wikipedia.org/wiki/collaborative_filtering

Author Profile



Anugraha Raj.S received the B-Tech from M.G University in 2014 and doing M.Tech in Computer Science from 2014 in Mangalam College of Engineering. Her area of interests includes data mining, security in computing and artificial intelligence.



Sreenimol K.R received B.Tech from Govt RIT ,Kottayam and M.tech from CUSAT, Cochin.She is currently an associate professor in Mangalam College of Engineering, Kottayam. Her area of interests includes data mining, computer architecture, social networks.