Abstract

As the number of web services with similar functionality increases, the service users usually depend on web recommendation systems. Nowadays the service users pay more importance on non-functional properties which are also known as Quality of Service (QoS) while finding and selecting appropriate web services. Collaborative filtering [3] approach predicts the QoS values of the web services effectively. Existing recommendation systems rarely consider the personalized influence of the users and services in determining the similarity between users and services. The proposed system is a ranking oriented hybrid approach which integrates user-based and item-based QoS predictions. Many of the non-functional properties depend on the user and the service location. The system thus employs the location information of users and services in selecting similar neighbors for the target user and service and thereby making personalized service recommendation for service users.
4. L. Shao, J. Zhang, Y. Wei, J. Zhao, B. Xie, and H. Mei, "Personalized QoS prediction for Web services via collaborative filtering", in Proc. 5th International Conference on Web Services, 2007, pp. 439-446.
10. L. Shao, J. Zhang, Y. Wei, J. Zhao, B. Xie, and H. Mei, "Personalized QoS prediction for Web services via collaborative filtering", in Proc. 5th International Conference on Web Services, 2007, pp. 439-446.

**Index Terms**

Computer Science

Information Sciences

**Keywords**

Web services, Collaborative filtering, Location-aware, QoS prediction, Service recommendation