A Web Service Selection Mechanism based on User Ratings and Collaborative Filtering

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Abstract

As cloud computing is gaining its popularity, more and more services are deployed through Web service technology. How to quickly select a suitable service is an important issue. In recent studies on the Web service selection, the most approaches are based on service requirements and quality of services designated by the user but less take the user's own evaluation into account.

In this paper, we propose a Web service selection mechanism based on user ratings and collaborative filtering. In this mechanism the quality of service of Web services, the feedback from the users and similarity among the users are taken into consideration for selecting Web services. The proposed method is verified by a case study of a travel information system and then the Mean Aver-age Precision (MAP) is evaluated by the experiments.

Keyword：Web services, Web service selection, Feedback mechanism, Personalization