

A Web Service Selection Mechanism based on User's Preferences

張欽智, 蔡文偉

Computer Science & Information Engineering

Computer Science and Informatics

changc@chu.edu.tw

Abstract

With the fast development of Web services more and more Web services are available. The conventional issues of Information/knowledge discovery has evolved into service discovery. There is a need to discover, select and compose suitable services that meet user's requirements.

The existing service discovery technologies are mainly keyword-based search and less emphasize on user's preferences. We believe user's preferences are the key factor for the decision on the service selection.

In this paper we present a Web service selection mechanism based on user's preference. The mechanism enhances the existing Web service registry (UDDI) with the sorting, ranking, and feedback capability. In each step the user's preferences are taken into consideration.

A system is built based on the mechanism and the feasibility of the mechanism is validated by a travel plan example. The performance of the mechanism is also analyzed. It shows the system is feasible and effective.

Keyword : UDDI, Service Discovery, Service Selection, Quality of Service