

基於路徑建構規劃的網路服務篩選機制(A Web Service Selection Mechanism Based on Path Planning)

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摘要

Web services have become an important server-side technology. With the fast deployment of large amount of Web services a more effective Web service selection mechanism is essential. As complexity and customization of a user's need increase, a single service no longer meets user's requirements. Hence, how to compose multiple services into a single one has become an important research topic. But the current solutions to selecting suitable services for composition from large amount of services are either too theoretic or too specialized.

In this thesis we devise a mechanism that can select services more suitable for composition. We first filter out those services which do not meet the preset criteria using the semantic information that has been entered when the service is registered. Each remaining service is then treated as a node in a graph. The problem of selecting services becomes a problem of path planning. In our approach, the path is built by taking the correlation factor into consideration. We then compare the proposed method against the ones without correlation. The experiments show that selection based on correlation has its advantage.

關鍵字：service selection, UDDI, correlation, path planning