Web Service selection is a key component in service-oriented computing. Service-oriented Architectures follow the find-bind-execute paradigm in which service providers register their services in public or private registries, which clients use to locate web services. The QoS based web service selection mechanisms plays an essential role in service-oriented architectures, because most of the applications want to use services that accurately meet their requirements. Currently, the UDDI catalogue supports only primitive matching mechanisms and provides no control over the quality of registered services. We propose a QoS broker based architecture for dynamic web service selection which facilitates the clients to specify the non-functional requirements like QoS along with functional requirements. The paper presents an efficient mechanism for finding the most suitable web service according to the consumer's requirements.

Reference
Data Management (ICDM 2008).


Index Terms

Computer Science

Information Systems

Key words

Web Service Selection

Quality of Services (QoS)

WS-QoS Broker

UDDI

WSDL

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tModel