Abstract

Web Services' discovery is a very important issue related to Web Services. From Syntax and using match-making words to semantic web and taking QoS parameters into account for
selecting between Web Services having the same functionality for finding the best service that fulfills the customer's requirements. In this paper we put a future image for Web Services' Discovery by merging both UDDI and Search Engines, as the new trend in Web Services' Discovery is building a central repository storing all Web Services after collecting them from UDDI, different UBRs, this central point will be a reference to the client for searching the required Web Service. Two datasets one contains 365 WS and the other 2500 WS used in the experimental work. Our work will cover two phases from the suggested model phase 4 and phase 6, fig. (3). Classifying Web Services before storing them will enhance the search process and it could be a step for building open web directory contain all Web Services like used for searching web sites for a specified issue (ODP, DMOZ..), Online databases maintain a collection of structured domain-specific documents dynamically generated in response to users' queries instead of being accessed by static URLs. We also proposed a client GUI that will enable the Web Service consumer easily access data stored inside these databases contain updated frequently data of Web Services information collected classified and stored using different crawlers. This will facilitate and enhance the Web Services' Discovery process, client will be able to select between Web Services due to QoS requirements and find the best Web Service that fulfills his/her requirements.

References

- Prentice Hall Service-Oriented Computing Series by Thomas Erl.
- SOA Principles of Web Services Design--by Thomas Erl.
- Service-Oriented Architecture (SOA) and Web Services: The Road to Enterprise Application Integration (EAI) by Qusay H. Mahmoud, April 2005.
- Efficient Web Service Discovery and Composition using Constraint Logic Programming Srividya Kona, Ajay Bansal, Gopal Gupta and Thomas D. Hite 2 Department of Computer Science The University of Texas at Dallas 2 Metallect Corp.
- A Hybrid Approach to QoS-Aware Web Service Classification and Recommendation Alexandra Moraru1, Carolina Fortuna Radu Rzvan Silvescu Computer Science Department, Technical University of Cluj-Napoca, George Baritiu 26-28, 400027 Cluj- Napoca, Romania Department of Communication Systems Department of Knowledge Technologies.
- A QoS-aware Method for Web Services Discovery Bian WU, Xincai WU1,2 Research Center for GIS Software and Application Engineering, Ministry of Education, Wuhan, China School of Earth Sciences and Resources, China University of Geosciences, Beijing, China.
- Discovering Web Services in Search Engines. Eyhab Al-Masri and Qusay H. Mahmoud • University of Guelph.
- A QoS-aware Selection Model for Semantic Web Services Xia Wang1 Tomas Vitvar1 Mick Kerrigan2 and Ioan Tomac2.
- Towards Semantic Web Services Discovery with QoS Support using Specific Ontologies Haihua Li, Xiaoyong Du, Xuan Tian.
- A QoS-aware Method for Web Services Discovery Gang YE, Chunle WU, Jun YUE, Shi CHENG, Chunle WU.
- WSCE: A Crawler Engine for Large-Scale Discovery of Web Services Eyhab Al-Masri and Qusay H. Mahmoud.
- A Framework for Efficient Discovery of Web Services across Heterogeneous Registries Eyhab Al-Masri and Qusay H. Mahmoud.
- Google vs. Yahoo Barry Schwartz.
- A QoS-aware Method for Web Services Discovery Bian WU, Xincai WU1, 21Research Center for GIS Software and Application Engineering, Ministry of Education, Wuhan, China 2School of Earth Sciences and Resources, China University of Geosciences, Beijing, China.
- Towards Semantic Web Services Discovery with QoS Support using Specific Ontologies Haihua Li, Xiaoyong Du, Xuan Tian.
- WSCE: A Crawler Engine for Large-Scale Discovery of Web Services Eyhab Al-Masri and Qusay H. Mahmoud Department of Computing and Information Science University of Guelph, Guelph, Ontario, Canada dbalmasri@uoguelph.ca.
- Semantics in Service Discovery and QoS measurement Chen Zhou, Liang-Tien Chia, and Bu-Sung Lee.
- Using Common Sense Reasoning to Enable the Semantic Web Alexander Faaborg, Sakda Chaiworawitkul, Henry Lieberman, MIT Media Lab.

**Index Terms**

Computer Science

Information Sciences
Keywords

Web Services Discovery
Semantics Web Services
WSCE

GUI
UDDI
WSDL
Search Engines
Crawlers
QoS
Classification