Abstract

Due to the advent of service oriented architecture, web services have gained popularity. The need for efficient web service discovery increases because of the enormous growth of the web services. The main concern of this paper is to addresses the challenge of automated web service discovery and service similarity assessment. It utilizes the WordNet and a traditional information retrieval method, combined with structure matching to identify potentially useful services and estimating their relevance. The objective of this paper is to find the best suitable web service assessment method by comparing the three web service similarity assessment methods namely WordNet-powered vector space model, Structure matching and Semantic structure matching.

References

Comparison of Web Service Similarity- Assessment Methods

- XML Introduction - What is XML? - W3Schools: http://www.w3schools.com/xml/xml_whatis.asp
- Simple Object Access Protocol (SOAP) http://www.w3.org/TR/2003/REC-soap12-part0-20030624
- Universal Description Discovery and Integration (UDDI). http://uddi.org/
- Web Services Description Language (WSDL: http://www.w3.org/TR/wSDL)
- J. Purtilo and J. M. Atlee. "Module Reuse by Interface Adaptation".
  Software Practice and Experience, Vol. 21, No. 6, 1991, 539-556.
- Wang and Eleni Strouila Yiqiao "Semantic Structure Matching for Assessing Web-Service Similarity".
  Computer Science Department, University of Alberta, Edmonton, AB, T6G 2E8, Canada {yiqiao,strouilia}@cs.ualberta.ca.
- Yiqiao Wang, "Information Retrieval and Semantic Structure Matching for Assessing Web-Service Similarity".
- Manish Sharma, Rahul Patel, "A Survey on Information Retrieval Models, Techniques And Applications".

Index Terms

Computer Science Web Services

Keywords

Web Service Semantic matching Structure matching Vector space wordnet