Abstract

The world wide web expanded day by day, many website (avg 51 million website) added to the web every year. Almost all organization support open data and make their data available over the web, which increase innovation. The Semantic Web is an evolution and extension of the existing Web that allows computers to manipulate data and information. Semantic web is based on the content-oriented description of digital documents with standardized vocabularies that provide machine understandable semantics. Basic building block for Semantic web are Ontology, RDF/OWL, SPARQL. Semantic web vocabulary can be considered as a special form of ontology. Semantic web provide connection between human and computer by making the computer think more like a human. It is artificial intelligence which can intelligently learn and understand the semantic. Semantic web is also understandable by Web 3.0 which is the executable and read/write Web. The idea of the Semantic Web is still undergoing research and development.
Transaction on Knowledge and DataEngineering”, Vol. 25, No1. January 2013 Page(s): 158 –
176.
2. Farrag, Tamer Ahmed ,Saleh, Ahmed Ibrahim ; Ali, Hesham Arafat “ Toward SWSs
Discovery: Mapping from WSDL to OWL-S Based on Ontology Search and Standardization
Engine”IEEE Transaction on Knowledge and Data Engineering, Vol. 25, No5. May 2013 pages
1135-1147
3. A Telang, C Li, S Chakravarthy “One Size Does Not Fit All: Toward User and
Query-Dependent Ranking for Web Databases” IEEE transaction on knowledge and data
engineering vol 24, no9, September 2012 pages 1671 - 1685 
4. P Kremen, Z Kouba “Ontology-Driven Information System Design” IEEE transaction on
pages 334 – 344.
International Conference on Data Mining Workshops Page(s): 752 - 760 .
6. Dimitrios A. Koutsomitropoulos, Ricardo Borillo Domenech, Georgia D. Solomou “A
Structured Semantic Query Interface for Reasoning Based Search and Retrieval “The Semntic
Information Based on Ontology and SPARQL” Published in: Information Science and
Management Engineering (ISME), 2010 International Conference of (Volume:1 )Date of
8. Z Li, YL Zheng, SN Li, WW Liang “A Knowledge SharingConvergence Platform Based on
OWL-S and Semantic Relations” Published in Software Engineering (WCSE), 2010Second
World Congress on (Volume:1 ) 19-20 Dec. 2010Page(s): 65 - 68 .
11. Web Services Description Language (WSDL), W3C Note, http:// www.w3.org/TR/wSDL,
12. Web Ontology Language for Services (OWL-S), W3C Member Submission,
13. B. Di Martino, “Semantic Web Services Discovery Based on Structural Ontology
15. Z Yun, S Huayou, Q Hengnian “A Semantic Web Services discovery mechanism design
and implementation based on OWL Ontology “ Educational and Network Technology (ICENT),
2010 International Conference on 25-27 June 2010 Page(s): 139 - 143.

Index Terms

Computer Science

Information Sciences
Keywords

Semantic Web, Ontology, RDF/OWL, SPARQL, Web 3.0 Search, Machine Understandable