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 understand by Web 3.0 which is the executable and read/write Web. The idea of the Semantic Web is still undergoing research and development.

References

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 .


5. P Panov, S Dzeroski, L Soldatova “OntoDM: An Ontology of Data Mining” 2008 IEEE International Conference on Data Mining Workshops Page(s): 752 - 760 .


Index Terms

Computer Science

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Keywords

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