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.
An Overview of Building Blocks of Semantic Web


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Index Terms

Computer Science

Information Sciences
Keywords

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