

Abstract Details

Title: Semantic Web Technologies towards an Intelligent Web

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Abstract: The current web is based on keyword searches and does not understand the user's needs completely. Semantic web, the dream of Sir Tim Berners Lee, is envisioned as the smart web which enables better interaction of humans with the web by allowing the machines to understand the data on the web. The capabilities of Semantic web are tremendous, which make it an upcoming research area. But implementing and realizing the goal of semantic web is the greatest challenge because of its technologies as its research concerns. There is a need to explore the various concerned technologies as research aspects associated with this intelligent web, in the form of a complete tour from past review to current progress. In this paper, first, evolution of web and the need of semantic web for an efficient information search has been presented; second, the architecture for semantic web has been revisited; third, various technologies associated with web have been explored, discussed and revisited, and finally, various other research issues have been discussed along with the future scope in this direction.

Keywords: Semantic Web Technologies, Ontology, RDF, Research Concerns, SPARQL, Intelligent Web.