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SEMANTIC WEB

Abstract

In this paper the author presented the Semantic Web as a new generation in the evolution of the Web. In contrast to previous generations based on work with people, the third generation of the Web, presented in the paper, is focused on mechanical processing of stored information. Information are being processed at a higher level because Semantic Web is based on giving meaning to information on the Web and it is therefore defined as a plan to achieve related data applications on the Web in a form that creates a consistent logical data network. In the paper the author presented the process of constructing the Semantic Web through the establishment of a new level of interoperability. Due to the importance of the syntactic form of a document and the syntactic content, the languages of the Semantic Web are presented. Due to the importance of Web content categorization, the paper presents dictionaries that cover different areas. Different ontologies have been developed separately and the Semantic Web has brought the need for interoperability. For that reason, this paper is also focused on the languages of the ontologies. In terms of use of the Semantic Web, the author specifically focused on knowledge managing and presented tools for maintaining a poorly structured sources of information.

Key words: semantic web, information processing, data application connecting, semantic web languages, dictionaries, ontologies, use of semantic web.