

عنوان مقاله:

A Comparative Study Of Web Ontology Languages In Semantic Web

محل انتشار:

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خلاصه مقاله:

Ontology attracts many attentions in semantic web field, because it is where real semantic of the web lies in ontology. Ontology languages play a prominent role on the semantic web and these will be the main carriers of the information that users will want share and integrate. This paper is surveyed and compared different ontology languages. For this purpose reviewed related works and chose KIF2, OWLS (Lite, DL, Full), RDF4(S) and DAML5+OIL6 languages. Finding shows that there are 12 criteria for evaluation of ontology languages such as constructs and conceptualization of domain, specification perspective, expressiveness, formality, popularity and etc. All of ontology languages have 3 layers or features and their perspective are structural. Expressiveness in KIF and OWL Full is high and in RDF(s) and OWL DL is medium. Syntax and semantic criteria in all of languages is formal and OWL is the most popularity languages.

کلمات کلیدی:

semantic web, ontology languages, criteria of evaluation

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