Abstract

As a backbone of the Semantic Web, Ontologies provide a shared understanding of a domain of text. Ontologies, with their appearance, usage, and classification address for concrete ontology language which is important for the Semantic Web. They can be used to support a great variety of tasks in different domains such as knowledge representation, natural language processing, information retrieval, information exchange, collaborative systems, databases, knowledge management, database integration, digital libraries, information retrieval, or multi agent systems. Thus a fast and efficient ontology development is a requirement for the success of many knowledge based systems and for the Semantic Web itself. This paper provides
discussion on existing ontology tools and methodologies and the state of the art of the field.

References


Knowledge Representation with Ontology

Sweetening Ontologies with DOLCE. In EKAW-02: Proceedings of the 13th Int. Conference on
Knowledge Engineering and Knowledge Management. Ontologies and the Semantic Web,
pages 166–181. Springer.
Smith, editors, Proceedings of the 2nd International Conference on Formal Ontology in
- P. F. Patel-Schneider, P. Hayes, and I. Horrocks. 2002. OWL Web Ontology
Language; Semantics and Abstract Syntax. http://www.w3.org/TR/owl-semantics/.
- Stephan Grimm1, Pascal Hitzler2, Andreas Abecker1 2007 Knowledge Representation
and Ontologies Logic, Ontologies and Semantic Web Languages.
- Oscar Corcho 1, Mariano Fernandez-Lopez 2, Asuncion Gomez-Perez: 2002,
Methodologies, tools and languages for building Ontologies. Where is their meeting point?
Data & Knowledge Engineering 46 (2003) 41–64.

Index Terms

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Keywords

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