Abstract

It is important to represent the knowledge residing on WWW in a uniform manner understandable by both man and machine to make it semantic. Thus some taxonomy is needed to make representations of the web contents which can be machine readable and usable. This taxonomy can be thought of as ontology. This paper proposes to relate Description logic (DL) and Web ontology language (OWL) based Ontology and demonstrate how a OWL ontology quantifier description can enable DL query to generate inferences there by demonstrating the machine interpretability aspect of the ontology and thus render support to the Semantic web.

References

- F. Baader and W. Nutt. Basic description logics. In franz baader, Diego Calvanese, Deborah mcguinness, Daniele nardi, and peter F. patel- Schneider, editors, The
Description logic based quantifier restriction and query of an OWL ontology

- Basic description Logics, Franz Baader and Werner Nutt
- DESCRIPTION LOGICS-basics, Applications, and more, Ian Horrocks University of Manchester, UK
  - introduction to description logics, Daniele Nardi, Ronald J. Brachman.
  - http://protege.stanford.edu/
  - Creating Semantic Web (OWL) Ontologies with Protégé, Holger Knublauch, Mark A. Musen, Natasha F. Noy, ISWC2003
  - http://www.w3.org/TR/owl-features/, OWL Web Ontology Language Overview W3C Recommendation 10 February 2004

Index Terms

Computer Science Information Sciences

Keywords

Description Logic (dl) Ontology Owl (web Ontology Language)