Ontology Modeling Profile, an Extension for the Ontology UML Profile

International Journal of Computer Applications
© 2010 by IJCA Journal

Number 12 - Article 4

Year of Publication: 2010

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10.5120/1124-1473

Abstract

This paper presents an extension for the Ontology Modeling Profile (OUP). The extended profile together with Ontology Definition Metamodel (ODM), enables the usage of Model Driven Architecture (MDA) standards in ontological engineering. Our profile is based on the recent W3C effort – The Web Ontology Language (OWL). We have shown the role of individuals and slots in building OWL statements. This utilization improves the practical implementation of Ontology models using UML profiles.

Reference

Ontology Modeling Profile, an Extension for the Ontology UML Profile

- F. van Harmelen. The semantic web: what, why, how, and when. IEEE Distributed
Ontology Modeling Profile, an Extension for the Ontology UML Profile


Index Terms

Computer Science                  Ontology

Key words

Unified Modeling Language (UML)

Model Driven Architecture

Ontology (MDA)

Semantic Web

Ontology Definition Metamodel(ODM)

Web Ontology Language (OWL)