Abstract

Ontology matching is a key interoperability enabler for the Semantic Web, as well as a useful tactic in some classical data integration tasks. It takes the ontologies as input and determines as output an alignment, that is, a set of correspondences between the semantically related entities of those ontologies. These correspondences can be used for various tasks, such as ontology merging and data translation. Thus, matching ontologies enables the knowledge and data expressed in the matched ontologies to inter-operate. In this paper we present an overview of recently proposed matching techniques which is participated in OAEI and Ontology matching tools which achieve high match efficiency with respect to conference track of OAEI 2010. In particular we discuss lessons learned on strong points and remaining weaknesses of various matching techniques is summarized.

References

A Study of Different Ontology Matching Systems


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- ALCOMO Software: http://web.informatik.uni-mannheim.de/alcomo/
- NetBeans IDE: http://netbeans.org/
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Index Terms

Computer Science

Information Sciences

Keywords

Similarity Measure

Ontology Matching

Ontology Alignment