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Authors:

P. Shanthi Bala

G. Aghila

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**Abstract**

Relationship plays a vital role in the development of ontology for a domain. Relationships are fundamental to semantics in ontology in order to associate concepts and their instances.

Subsumption, Satisfiability, Consistency and Instance Checking are carried out in reasoning. It is accomplished with the use of concepts (TBox) and instances (ABox). Relationship based reasoning is important and very complex to implement. It can be achieved only with the use of finding semantic similarity between relationships. This paper discusses how the effective reasoning can be attained with the use of relationship. It discusses about the advantages of relationship based reasoning.

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### Index Terms

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