

# Ontology Matching and Ranking: Issues and Research Challenges in Semantic Web Application Development

**U.U.Samantha Kumara Rajapaksha and H.Chandrika Fernando**

Department of Information Technology, Sri Lanka Institute of Information Technology

New Kandy Road, Malabe, Sri Lanka

samantha.r@sliit.lk and [chandrika.f@sliit.lk](mailto:chandrika.f@sliit.lk)

*Abstract* - Ontology is the main component in knowledge representation for Semantic Web application development. It is a data model, which can be used to describe a set of concepts and the relationships between those concepts within a domain and across domains. There is a large number of ontology available for Semantic Web application development and different developers use different types of ontology for the development of applications. Finding relevant ontology and matching existing ones are very important for Semantic Web application development. Here we explore current ontology matching and ranking techniques. This paper contains the issues and research challenges for ontology matching and ontology ranking.