Abstract

In this paper we describe how UML schemes can be converted into OWL Ontology, thus enabling reasoning on them by Semantic Web applications. The proposed solution is based on a three phases approach, the first step is to present the class diagram in the mathematical formulation and the second one is converting the UML Class into encoded text file, finally, the structure of the classification scheme is converted into OWL ontology. We demonstrate the practical applicability of our approach by showing how the results of reasoning on these OWL ontology can help improve the Web systems.
A New Method for Mapping UML Class into OWL Ontology

References


Index Terms

Computer Science Information Sciences
Keywords
Component; Rdf  Owl  Web Ontologie  uml