

Selecting Ontologies for Reuse: Case of Constructing Hotel Room Ontology

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Abstract

In line with the goal of promoting interoperability among applications, ontology reuse is an encouraged practice. Selecting appropriate ontologies for reuse when constructing a domain ontology is a critical activity. It calls for the use of formal methodologies and quality metrics in order to provide a comprehensive rationale for the selection process. This research employs NeOn methodological guidelines and CLeAR in selecting and assessing ontologies for reuse while building a domain-specific ontology, the Hotel Room Ontology. Results of the ontology selection and assessment exercise led to the selection of Hontology, DogOnt and SOSA/SSN. The integrated approach to ontology selection gives a justifiable basis for decisions made in identifying ontologies for reuse.

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