Open Ontology Repository

The Future of Ontology Metadata?

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OMV – Ontology Metadata Vocabulary

- OMV is an OWL ontology that provides a vocabulary of terms and definitions for describing ontologies.

- **Scope**
  - Structural metadata
  - Descriptive metadata
  - Administrative metadata
Extensions to OMV?

- Current users of OMV are happy with the current OMV and there are no plans for significant extensions.
- OMV was designed to support ontology reusability and sharability following use cases in
  

and OMV has been able to support these use cases.
Questions for OOR

Why do we believe that extensions to OOR are needed?

- What use cases do we have in OOR to motivate such extensions?
- Has anyone in OOR used OMV? If so, what issues have they encountered?
The emphasis in COLORE is on the metatheoretic relationships between ontologies within the repository.

- Conservative extension
- Nonconservative extension
- Relative interpretation
- Faithful interpretation
- Definable equivalence
- Reducibility
Modularity

How can we specify that an ontology is composed of a set of modules within the repository?

- In COLORE, we have the notion of a hierarchy, in which theories are ordered by nonconservative extension, and the notion of repository, in which hierarchies are ordered by reducibility.
Ontology Types

OMV supports the following types of ontologies:

- Upper level
- Core
- Domain
- Task
- Application

Are these sufficient for OOR?

Do we need more formal foundations for the distinctions between these types?
Summary

- OOR needs to provide use cases that motivate specific proposals to extend OMV.
- Further exploration:
  - Ontology merging / alignment
  - Versioning