DAML Ontology Library

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OntoLog Forum
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DAML Ontology Library

• Created early in the DARPA Agent Markup Language program
  – Organize content
  – Promote reuse
  – Demonstrate adoption
• 282 DAML+OIL and OWL ontologies submitted from October 2000 – December 2003
• Cited in several ISWC papers
  – Property (Feature) use across libraries
• Largely replaced by Ontaria and SchemaWeb
• Available at http://www.daml.org/ontologies/
  – daml.org now archived at W3C
Structure

• Web-based submission
• MySQL database containing metadata and descriptive information
• Servlet user interface for browsing
Example

### Ontology

http://reliant.tekknowledge.com/DAML/SUMO.owl

#### Link

http://reliant.tekknowledge.com/DAML/SUMO.owl (hyperlink) (download)

#### Description

Standard Upper Merged Ontology proposal to the IEEE Standard Upper Ontology effort

#### Point of Contact

Adam Pease of Tekknowledge Corporation

#### Submitter

Adam Pease of Tekknowledge Corporation

#### Submission Date

2001-06-05

#### Keywords

upper ontology

### Open Directory Categories

### Classes

AbnormalAnatomicalStructure
Abstract
Adjective

### Properties

AbsoluteValue
Absorption
age

### Namespaces Used

http://reliant.tekknowledge.com/DAML/SUMO.owl
http://www.w3.org/1999/02/22-rdf-syntax-ns
http://www.w3.org/2000/01/rdf-schema
http://www.w3.org/2002/07/owl

### Funding Source

Other: Army

### Notes

Army funding was used to create the ontology, DAML funding was used to create a translator which allowed it to be expressed in DAML

from http://www.daml.org/ontologies/172
Lessons Learned

• Curation/quality control
  – Many users desired some indication of use and quality of the ontologies, e.g. user ratings

• Cacheing
  – Many links subsequently became unavailable
  – Desirable to store (and make available) local copies
Suggestions

• Validate inputs/updates
• Indicate language dialect and/or complexity
• Manual review may be necessary to reduce SPAM and duplicates
• Provide a SPARQL endpoint for querying content
Swoogle

• [http://swoogle.umbc.edu](http://swoogle.umbc.edu)
• Semantic Web crawler and search engine
  – Focused more on ontologies than instances
• Over 10,000 ontologies
• Widely cited
• Tim Finin and others at UMBC are interested in continuing development
Swoogle Examples
Ontario

• [http://www.w3.org/2004/ontaria/](http://www.w3.org/2004/ontaria/)

• Ontology and data directory

• Developed by Sandro Hawke at W3C

• Currently in disrepair
SchemaWeb

- [http://www.schemaweb.info](http://www.schemaweb.info)
- Directory of RDFS and OWL vocabularies
- Developed by Victor Lindesay
- Announced to www-rdf-interest on 19 November 2003
- Browsing shows about 200 vocabularies (a nice, relatively current collection)
SchemaWeb Examples

Search SchemaWeb Directory

[Suggested Upper Merged Ontology (SUMO)]
This ontology is being created as part of the IEEE Standard Upper Ontology Working Group. The goal of this Working Group is to develop a standard upper ontology that will promote data interoperability, information search and retrieval, automated inferencing, ...

[Mid-Level Ontology (MLO)]
The Mid-Level Ontology is a bridge between the abstract content of SUMO and the rich detail of the various SUMO domain ontologies.

Suggested Upper Merged Ontology (SUMO) :: Schema Details

Name: Suggested Upper Merged Ontology (SUMO)
Description: This ontology is being created as part of the IEEE Standard Upper Ontology Working Group. The goal of this Working Group is to develop a standard upper ontology that will promote data interoperability, information search and retrieval, automated inferencing, and natural language processing.
Namespace: http://reliant.teknowledge.com/DAML/SUMO.owl#
Location: http://reliant.teknowledge.com/DAML/SUMO.owl
Website: http://www.ontologyportal.org
Contact Name: Adam Pease
Contact Email: adampease@earthlink.net
Local Version: 22/07/2006 07:15:36