Ontology Summit 2013:
Ontology Evaluation Across the Ontology Lifecycle

Track C: Building Ontologies to Meet Evaluation Criteria

Background

- Two approaches to assuring the quality of an ontology:
  - 1. Measure quality of the result against the requirements that it should meet.
  - 2. Process or methodology to ensure the quality of the resultant ontology.
- That is, Proactive versus Reactive
- Methodologies are generally designed to ensure cost savings compared to after-the-event quality measures
  - Do these exist for ontologies?
  - How mature are they?
  - Do they take account of different ontology roles, lifecycles?

Methodologies

- Incorporate techniques for evaluation
- Link to software development lifecycles
- Take account of ontology usage scenarios
  - As deliverable application
  - As conceptual model

Mission

- Investigate the state of the art in ontology development methodologies, including key achievements and key gaps that currently exist.

  - Achievements: what's there?
  - Gaps: what's not there?

Objectives

- 1. Examine the explicit and implicit methodologies that are known to exist.

- 2. Understand the role that upper ontologies play in ontology development methodologies.

- 3. Understand the role of ontological patterns in ontology development methodologies.

- 4. Identify how to apply the intrinsic and extrinsic aspects of ontology evaluation identified by the other tracks, within the applicable development methodologies.

- 5. Identifying how to frame the applicable ontology development methodologies within the frameworks of established quality assurance regimes (such as ISO 9000 and CMMI) for industrial applications.

Track C Sessions

- 7 Feb 2012

- 14 March 2012