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