

Ontology Summit 2014

Applied Ontology Meets Semantic Web and Big Data

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Pre-launch Organization Committee Meeting

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Ontology Summit 2014: Theme

Applied Ontology Meets Semantic Web and Big Data

- This Summit is an opportunity for building bridges between the Semantic Web, Big Data, and Applied Ontology communities,
- The Semantic Web and Big Data communities can bring a wide array of real problems and technologies (e.g. performance and scalability challenges, automated reasoning tools), while the Applied Ontology can bring a large body of content (i.e. ontologies) and ontological analysis techniques.
- What are the obstacles to closer collaboration among these communities?

Candidate Track 1

Common Reusable Semantic Content

- Identifying ontology patterns in Semantic Web problems
- What ontologies are required by the Semantic Web applications?
- If these ontologies are not available in any current ontology repository, how can we engage the applied ontology community to develop them?
- Can we apply existing analysis techniques to ontologies that are being widely used within the Semantic Web community?

Reasoning Tools and Techniques

- How can reasoning tools being developed within the Semantic Web community be applied to the ontologies that are being developed by the applied ontology community?
- Knowledge acquisition tools.

Candidate Track 3

Overcoming Ontology Engineering Bottlenecks

- Scaling up the design of reusable and flexible ontologies
- Lowering the hurdles for domain experts to use ontologies to publish, retrieve, and integrate data.

Tackling the Variety Problem in Big Data

- Problems that require the integration of data from many sources.
- Techniques that (semi-) automatically map a given data set into a semantic representation using a given ontology.