

Perspectives on Ontology Summit 2014

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Why Are We Here?

- Since the beginnings of the Semantic Web, ontologies have played key roles in the design and deployment of new semantic technologies. Yet over the years the level of collaboration between the Semantic Web and Applied Ontology communities has been much less than expected. Within Big Data applications, ontologies appear to have had little use or impact.
- Ontology Summit 2014 has provided an opportunity for building bridges between the Semantic Web, Linked Data, Big Data, and Applied Ontology communities.

Focus Areas

- How are ontologies actually being used in Semantic Web and Big Data applications, and how does this differ from existing applications of ontologies?
- How can the Semantic Web and Big Data communities share and reuse the wide array of ontologies that are currently being developed?
- To what extent can automation and tools help overcome ontology engineering bottlenecks?

What Have We Learned?

- Using ontologies with Big Data and the Semantic Web raises questions about scalability and the expressiveness of the underlying ontology representation languages.
- Reusability of semantic content is a critical challenge
- The Semantic Web and Big Data provide great opportunities for ontology-based services, but also pose challenges for tools for editing, using, and reasoning with ontologies, as well as techniques that address bottlenecks for the engineering of large-scale ontologies.

Concrete Outcomes of the Summit

- Communique
- Hackathons
- Collection of use cases

Through these resources, we will continue to identify:

- best practices
- new applications for ontologies with the Semantic Web and Big Data
- future venues for collaboration among the communities