

HACKATHON: ONTOLOGY OF ONTOLOGY EVALUATION

ONTOLOGY SUMMIT 2013 HACKATHONS AND CLINICS PROPOSAL
PRIMARY PROJECT CONTACT: AMANDA VIZEDOM (INDEPENDENT CONSULTANT)
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SCHEDULE:

PRIMARY HACKATHON DAY: SATURDAY, 2013-03-30

ACTIVITIES:

- Gathering Requirements (whole team, extracting this content into single, shared document)
 - Technical requirements for use in PSMW, to support organization, presentation, and reuse of OntologySummit2013 materials and content (i.e., for use by HC-04 team).
 - Coverage requirements from various materials presented during the summit, especially those that identify:
 - evaluable characteristics of ontologies,
 - metrics and methods for such evaluation,
 - lifecycle stages, maturity models of ontologies and/or evaluation
 - useful faceting characteristics of ontology characteristics
 - characterizing ontology internally, characterizing ontology externally, characterizing relation of ontology specifics to particular use or application context
 - context dependence-independence of relevance of characteristic to quality/suitability
 - automatability ...
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- Developing Conceptual Model (whole team, collaborative)
 - Organizing, clarifying and documenting specifications of material above into a conceptual model
 - Critically examining draft models against requirements, refining and revising

DELIVERABLE:

- A rigorous but informal conceptual model of significant aspects of ontology evaluation, as discussed and developed during the summit. Though informal, this model shall be of sufficient clarity, quality, and explicitness to support effective and accurate formalization by all or some of the team.

OPTIONAL EXTENSION DAY: SUNDAY, 2013-03-31

ACTIVITIES:

- Formalizing the conceptual model developed on Saturday
- At minimum, formalizing this model in such a way to meet requirements for PSMW use.

- Possibly also formalizing in an ontology language suitable for use by other tools (ontology development environments, evaluation tools, and/or repositories).

DELIVERABLES:

- A formal ontology of ontology evaluation (at minimum: sufficient for PSMW use; preferably also sufficient to be used in other environments and to itself be evaluated by some ontology evaluation tool(s)).

ABSTRACT:

The 2013 Ontology Summit is bringing together a rich range of perspectives on ontology evaluation. Some of these perspectives are fairly abstract, some are encoded in methods and practices, and some are encoded in tools. Critical interaction via summit sessions and discussion has resulted in greater sharing of knowledge and in richer understandings of ontology evaluation at multiple elements. This enrichment is likely to be apparent in the activities and future products of summit participants. Another manifestation of this enrichment will be the summit Communique. The goal of this “hackathons & clinics” activity is to add another manifestation: a formal ontology representing ontology evaluation elements, factors, relationships, processes, etc., as they have emerged from summit discussion.

The scope of this project is staged to increase with available resources or as time permits, beginning with representation of the most important general concepts and their relationships to one another, through representation of specific metrics, tools, ontology characteristics, evaluation processes, and multi-faceted organizations thereof. Scope and prioritization will be requirements-driven, based on use cases. Given the very short duration of the Hackathon, the ambitions of this immediate project have been reigned in a bit. Our deliverable for the primary Hackathon day is now focused on producing a rigorous, readily formalizable conceptual model that covers as much of the target content as is feasible, considered with an eye toward many possible uses and informed by the summit discussions. Our formalized deliverable is moved to the second, optional extension day, and prioritizes support for the Ontology Summit PSMW (see HC-04).

COLLABORATORS SOUGHT:

- Formal and informal modelers to participate in the requirements and content gathering and conceptual modeling to take place on the primary hackathon day
- Formal ontologists willing and able to participate in the extension activity of formalizing the resulting conceptual model.