Ontology Summit 2014
Big Data and Semantic Web Meet Applied Ontology

Track E: Hackathon Launch Session

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Mission

The mission of the Hackathon (http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014_Hackathon) is to have fun during a 1-day long international hacking event exploring hacking solutions that span both paradigm and technology gaps between the Big Data, Semantic Web, Application Ontology domains.

In particular, the structured data gap (tables vs triples vs exotic specialized data structures vs text), schema reusability gap (ad hoc schemas vs ontology), and the hybrid reasoning gap ("statistical reasoning" vs "axiomatic reasoning"). We particularly encourage projects that cross a minimum of two (ideally three) of these themes, but hackathon teams from all areas of applied or theoretical ontologies are welcomed!

The goal of this year's hackathon is to build upon the success of last year's collaboration (http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2013_Hackathon_Clinics), stimulating live communication and collaboration across data, semantic and ontology communities. In particular we hope that practical hackathon projects can bring together theoretical and applied perspectives.
Gaps that need to be addressed
Current projects / panelists

1. Mr. Victor Agroskin (TechInvestLab) - "Reference data for Anime and Manga: Semantic Linking and Publishing of Diverse Data-Sets"

2. Mr. Mike Bennett (EDM Council) & Dr. Gary Berg Cross (SOCoP) - "Ontology Design Patterns and Semantic Abstractions in Ontology Integration"

3. Dr. Victor Chernov (NitrosData) - "Optimized SPARQL performance management via native API"

4. Professor Dr. Till Mossakowski (University of Magdeburg) & Dr. Oliver Kutz (University of Magdeburg) - "Ontohub consolidation"

5. Professor Ken Baclawski (Northeastern University) - "Semantic Annotation of the Ontolog Community Environment"

6. Dr. Amanda Vizedom (Ind. Consultant) - "An ontological catalogue of ontology and metadata vocabulary characteristics relevant to suitability for semantic web and big data applications"

• We are still open to new projects!
What can be a good Hackathon project?

The Hackathon includes both software coding and data preparation that provide example of cross-domain experience for hackathon teams members. Hackathons are best suited to short projects dealing with tools (data modelers, reasoners, ontology editors, etc.), datasets (data models, vocabularies, ontologies, etc.) and approaches for:

• identifying candidate tools/techniques for scaling up ontological approaches (e.g. sparse matrix representations for speed up),

• using standards for data conversion (e.g. CSV to semantic),

• using ontology and/or semantic web tools in data federation (e.g. reference data libraries or vocabularies),

• providing mapping/conversion cases of data models, semantic data annotations, domain ontologies,

• applying ontology patterns for semantic annotation and data transformation and query

• converting of public interest datasets to semantic annotated data and publishing it

• provide examples of "schema-free" approach for data processing

• demonstrate statistical and logical reasoning in one task

• infrastructure providing for Ontology Summit (e.g. website, data repository)

• ... any other project that will be suggested by participants.

Projects that build upon and integrate themes from elsewhere across Ontology Summit-2014 are preferred.
Work Plan

• Discuss your projects on Ontology Summit Discussion list: ontology-summit@ontolog.cim3.net

• Let teams be populated by new members that interested in particular projects [you can still form new project],

• Be sharping your knives for hacking.

• Have fun at 24 hour (1-day) hackathon event, **29 March 2014, Saturday**. We will establish communication infrastructure for all participants.

• There will be a short Hackathon report at Session-12 (Synthesis-II - Technical Tracks and Hackathon) 3rd of April 2014

• Then we collect reports from participating teams

• Teams provide demonstrations and co-champions provide synthesis of results from reports to Ontology Summit community at the 2014 Symposium
What next

• If you have any questions, please get in touch. You can use the Ontolog Summit List (ontology-summit@ontolog.cim3.net) to post your suggestions and call of participants to your team. Also you can use wiki (OntologySummit2014_Hackathon_CommunityInput) or contact the Hackathon organizers to help refine your ideas or look for advise and collaborators.

• Current state of affairs you always can see at http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologySummit2014_Hackathon roster.

• See you 29th of March 2014!

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