“RulesReasoningLP” Mini-series Launch

Opening Remarks by

Community & Technology Leaders and the Mini-series Co-champions:

- Professor Michael Gruninger (IAOA; U of Toronto)
- Professor Michael Kifer (SUNY, Stony Brook)
- Dr. Leora Morgenstern (SAIC)
- Dr. Vinay Chaudhri (SRI)
- Dr. Harold Boley (RuleML; U of New Brunswick)
- Dr. Henson Graves (Algos Associates; OMG)
- Professor Ken Baclawski (Northeastern U)
- Dr. John Sowa (VivoMind Research)
- Mr. Mike Dean (Raytheon-BBN)
- Mr. Peter Yim (Ontolog; CIM3)

Thu 2013.10.24
(v.1.00)
See: http://ontolog.cim3.net/cgi-bin/wiki.pl?ConferenceCall_2013_10_24
Opening Remarks
by
Michael Gruninger (IAOA; U of Toronto)

(No slides)
Opening Remarks
by

Michael Kifer (SUNY, Stony Brook)

(No slides)
Opening Remarks
by
Leora Morgenstern (SAIC)

(No slides)
Perspective: a power user / an application developer

- Distinction between rules and ontologies is artificial
  - The distinction should be made between decidable vs undecidable reasoning
  - An application developer should not have to worry about or know the difference

- Rules and ontologies vs conceptual models
  - While for some domains rules and/or ontology may provide a natural abstraction for knowledge acquisition, for most domains it does not
  - Support and design for higher level modeling primitives and language support should be viewed as a worthy design activity (e.g., UML models, hierarchically organized graphs, ontology design patterns etc.)

- Tasteful combination of features
  - The essence of language design for an application is a tasteful combination of features and not support for every imaginable feature
Opening Remarks
by
Harold Boley, et al. (RuleML)

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• What are potential applications where reasoning can have high payoff
  – In product development many of most costly disasters are due to inconsistent knowledge being used to make decisions – simple reasoning could identify inconsistencies

• What are preconditions for success
  – if proposing reasoning solution, analyze customer needs

• Abstract (Ken Baclawski & Henson Graves)
  – Reasoning systems applications
  – Organized around realistic use cases and how well various systems deal with these cases
  – Interest is “industrial-strength” rather than academic exercises
  – Experience reports welcome
  – Potential future applications of interest
Examples of Rules and Reasoning
Kenneth Baclawski
College of Computer and Information Science
Northeastern University

- Rules and reasoning occur in many contexts in industry and government
  - What are examples of successful and unsuccessful uses of rules and reasoning?
  - What can one learn about them?
  - Are there cross-industry best practices?

- Examples where rules and inference are used.
  - Databases have constraints and triggers.
  - Many programming languages have type inference.
  - Business rule engines
  - Situation awareness in military and medical settings
  - Military rules of engagement
Opening Remarks
by

John Sowa (VivoMind Research)

click Here for slides

Opening Remarks

by

Mike Dean (Raytheon-BBN)

(No slides)
Opening Remarks at the “RulesReasoningLP” Mini-series Launch

Peter Yim (Ontolog; CIM3) … Thu 2013.10.24 (v.1.00)

- This is an important “next step” in our collaborative effort to bring Ontology and Semantic Technology to the community and their collaborators
- we are expanding the usual conversation topics and reaching out …
  - Ontology → application of ontology
  - Ontologist, ontology engineers → systems engineers, application developers
  - Classical logics → non-monotonic logics, defeasible logics, …
  - Formal ontologists → semantic web researchers/implementors, systems modelers, …
- realizing the ONTOLOG mission of …
  - discussing practical issues and strategies associated with the development and application of Ontologies
  - striving to advance the field of ontological engineering and semantic technologies, and to help move them into main stream applications
- Kudos to those who are contributing – they are making a major contribution to the body-of-knowledge that this community has been collaboratively building, since we came together in 2002