Call for Papers

2nd International Workshop on
Ontology Alignment and Visualization – OnAV'09

http://www.ifs.tuwien.ac.at/~mlanzenberger/OnAV09

March 16 – 19, 2009, Fukuoka, Japan, Fukuoka Institute of Technology
In conjunction with the International Conference on Complex, Intelligent and Software Intensive Systems

Scope

Ontologies defined using semantic technologies such as RDF/S or OWL can be used to precisely define the domain knowledge of a knowledge-based system. Naturally, as the number of ontologies developed increases, comes the need for methods to integrate or align the separate ontologies. Ontology alignment algorithms can be used to establish semantic correspondences between related, but different, knowledge bases. Nonetheless, validating ontology alignment results is a challenge because it requires that the person undertaking the alignment has an in depth knowledge of both data sources.

Over the past decade a number of algorithms and techniques have been developed for aligning two or more ontologies using automated and semi-automated methods. However, it is recognized that human intervention is required to make judgments on the quality of the alignment pairs that result from such methods. Promising techniques from the information visualization community can, and have been applied, to help support such decision-making tasks in ontology alignment. Furthermore, initial studies have shown that using visualization helps improve the accuracy of the alignment results.

Many challenges remain to be addressed within the broad area of ontology alignment such as: scalability, human-computer interaction, cognitive aspects, alignment accuracy, applicability of different approaches, ontology evolution, run-time requirements of semantic web services and applications, etc.

Target Group

The OnAV Workshop aims to provide a forum for researchers discussing state of the art approaches to ontology management, and in particular, to investigate how information visualization techniques can be applied to support ontology alignment decision making tasks. However, we also encourage researchers and practitioners working in other areas such as ontologies for Semantic Web applications, Web2.0 and Web3.0, to submit interesting and challenging contributions.

Topics

Topics of interest include (but are not limited to):

- Ontology Alignment, Mapping and Merging
- Ontology Visualization
- Supporting Ontology Management Tasks Using Information Visualization
- Automated and Human-mediated Tasks of the Alignment Process
- User Interfaces for Ontology Alignment
- Visual Metaphors in Alignment
- User-specific and Task-oriented Ontology Alignment
- Scalability and Ontology Mapping, Merging and Aligning
- Quality in Ontology Alignment and Mapping
- Alignment Meta-Data
- Alignment Vocabularies
- Standardization of Alignment Data
- Applications of Ontology Alignment
- Similarity Measures for Ontology Alignment
- Ontologies and Problem-Solving Methods

Important Dates

Submission Deadline: **October 15, 2008**   [**EXTENDED ! **]
Author Notification: November 20, 2008
Author Registration: November 30, 2008
Proceedings Version: December 15, 2008
Workshop Dates: **March 16 – 19, 2009**

Submission Guidelines & Publication

The papers should be prepared using the IEEE CS format, two columns layout, single-spaced, 10-point, and using page numbers. The length should not exceed 6 pages (including figures and tables). For submission the paper should not contain the names of the authors or any references that may point to them as the authors of the paper. The papers should be submitted electronically via CISIS'09 website. If there is any problem with the electronic submission, please contact the Workshop Co-Chairs.

IEEE Computer Society Proceedings Author Guidelines are available here:
http://www.computer.org/portal/pages/cscps/cps/cps_forms.html

For Instructions for LaTeX users see
ftp://pubftp.computer.org/press/outgoing/proceedings/IEEE_CS_Latex.zip

Submitted papers will be carefully evaluated based on originality, significance to workshop topics, technical soundness, clarity, and presentation quality. Each submission will receive at least three blind reviews. Proceedings of the workshop will be published by IEEE Computer Society Press. The best papers presented at the workshop will be selected for publication in an international journal.

Workshop Co-Chairs

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Jennifer Sampson   *EPSIS, Norway*

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