

First International Workshop on Aspects in Evaluating Holistic Quality of Ontology-driven Information Retrieval

*** ENQOIR 2009 ***

The Joint International Conferences on Asia-Pacific Web Conference & Web-Age Information Management
(APWeb-WAIM 2009)

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The ENQOIR workshop targets to deeper understanding and disseminate knowledge on advances in evaluation and application of ontology-based information retrieval (ObIR). The main areas of the workshop is an overlap between three evaluation aspects in ObIR, namely, evaluation of information retrieval, evaluation of ontology quality's impact on ObIR results, and evaluation of user interaction complexity. The main objective is to contribute to optimization of ObIR by systemizing existing body of knowledge on ObIR and defining a set of metrics for evaluation of ontology-based search. The long-term goal of the workshop is to establish a forum to analyze and proceed towards a holistic evaluation method for evaluation of ontology-driven information retrieval systems.

CALL FOR PAPERS

In the recent years, a significant research effort has been devoted to ontology-driven information retrieval. The progress and results in this area offer a promising prospect to improve performance of current information retrieval systems. However, semantics-driven systems are not mainstream-adopted by industry, because there is a lack of adequate evaluation to demonstrate that the benefits of the new technology will overwhelm the payout.

Existing sparse evaluations of ontology-based information retrieval (ObIR) tools report improvement compared to traditional IR systems. However, the results lack indications whether this improvement is optimal. Furthermore, additional sophistication of the ObIR tools adds complexity on user interaction to reach improved results. Consequently, standard IR metrics as recall and precision do not suffice alone to measure user satisfaction because of complexity and effort needed to use the ObIR systems.

Furthermore, evaluation methods based on recall and precision do not indicate the causes for variation in different retrieval results. In addition, there are many other factors that influence the performance of ontology-driven information retrieval, such as ontology quality, complexity of user interaction, difficulty of a searching topic with respect to retrieval, indexing, searching, and ranking methods. The detail analysis on how these factors and their interactions affect a retrieval process can help to dramatically improve retrieval methods or processes.

From other hand, ontology's ability to capture the content of the universe of discourse at the appropriate level of granularity and precision and offer the application understandable correct information is important. An important body of work already exists in ontology quality assessment field. However, most of ontology evaluation methods are generic quality evaluation frameworks, which do not take into account application of ontology. Therefore there is a need for task- and scenario-based quality assessment methods that, in this particular case, would target and optimize ontology quality for use in information retrieval systems.

The purpose of this workshop is to discuss and agree on a set of metrics and hereby lay the foundation for the holistic quality evaluation of ontology-driven information retrieval. Particularly, we strongly encourage submissions dealing with ontology quality aspects and their impact on IR results, evaluation of usability of the ObIR systems, analysis of user behaviour, new evaluation methods enabling thorough and fine-grained analysis of ObIR performance, etc.

TOPICS

All submissions that focus on different aspects of a holistic evaluation of the ontology-driven information retrieval are invited. The main topics of interest are as follows:

- Evaluation of Ontology-driven Information Retrieval
 - Information retrieval evaluation
 - Assessment of annotation quality/labour-load
 - Evaluation and benchmarking techniques and datasets

- Quantitative / qualitative evaluation methods
- Cost/ utility ratio
- Ontology quality aspects in Information Retrieval
 - Ontology quality evaluation
 - Ontology utility
 - Ontology maintenance
 - Quantitative / qualitative evaluation methods
- User acceptance of semantic technology
 - Usability evaluation
 - Quantitative / qualitative evaluation methods
 - Evaluation of human-computer interaction.

SUBMISSIONS & PUBLICATION

We invite submissions of two types: regular papers, and research in progress papers. Papers are restricted to a maximum length of 12 pages (including figures, references and appendices). Submissions must conform to Springer's LNCS format. All accepted papers will be published in a combined APWeb-WAIM'09 workshops volume (as post-proceedings) of Lecture Notes in Computer Science series by Springer.

The extended best papers will be considered for publication in a standard issue of **ACM JDIQ (ISSN: 1936-1955)**. While extended versions of other accepted papers will be considered for publication in a special issue on *Evaluation Aspects of Semantic Search Applications* of the **International Journal on Metadata, Semantics and Ontologies (ISSN: 1744-2621)**.

ORGANIZING COMMITTEE

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PROGRAM COMMITTEE

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- Victoria Uren (The Open University, UK)

DATES

January 11, 2009	Submission of papers
February 2, 2009	Notification about decision
February 20, 2009	Camera-ready versions due

[http://events.idi.ntnu.no/enqoir09/
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