



Sixteenth International
World Wide Web Conference
May 8-12, 2007
Banff, Alberta, Canada
<http://www2007.org>



Semantic Web Track

Call for Papers

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Submissions should present original reports of substantive new work and can be up to 10 pages in length. Papers should properly place the work within the field, cite related work, and clearly indicate the innovative aspects of the work and its contribution to the field. In addition to regular papers, we also solicit submissions of position papers articulating high-level architectural visions, describing challenging future directions, or critiquing current design wisdom.

Submissions due:
November 20, 2006

For further information:
<http://www2007.org>

The Semantic Web vision involves the sharing and processing of data by automated tools as well as by people. The central idea of the Semantic Web is to extend the current human-readable web by encoding the semantics of web-resources in a machine-interpretable form in order to be able to automatically integrate data from different sources, to perform actions on behalf of the user, and to search for information based on its meaning rather than its syntactic form. This vision requires new and advanced methods, models, tools, and systems for services related to creation, access, retrieval, integration, and filtering of Web-based content.

We solicit contributions that demonstrate how semantic technologies can be exploited on the Web. In particular we welcome papers that:

- show how semantic technologies add value to the Web, achieving things that alternative technologies cannot do as well, or at all;
- present new semantic technologies, or novel applications of existing semantic technologies that provide new levels of Web functionality;
- address the role of communities in the Semantic Web; in particular how community effects on the web can be exploited to generate semantics;
- demonstrate how emerging web trends such as wikis, folkosonomies and social software can be enriched with semantic technologies.

Suggested topics include but are not limited to:

- Distributed architectures for the Semantic Web
- Emergent semantics
- Ontologies and representation languages
- Provenance, trust & security
- Semantic annotation and metadata
- Semantic brokering, integration and interoperability
- Semantic multimedia
- Semantic search and retrieval
- Semantic web services
- Semantic web mining, ontology learning
- Semantic Web in e-Business, e-Learning, e-Science
- Semantics in peer-to-peer systems and grids
- Social networks, web communities
- Web applications that exploit semantics

As well as papers arising directly from Semantic Web research, we also welcome contributions from related disciplines which may contribute to the success of the Semantic Web, including Databases, Natural Language Processing, Machine Learning, Information Retrieval, Distributed Systems, and others.

Submissions should describe original, previously unpublished, high quality, innovative work, making significant and preferably not only theoretical, contributions to the overall design of the Semantic Web, Semantic Web systems design and application experience.