



PPSWR 2003



## Workshop on Principles and Practice of Semantic Web Reasoning at ICLP 2003: 19th International Conference on Logic Programming Mumbai, India, Dec.9-13, 2003

<http://www.kbs.uni-hannover.de/~henze/ppswr03>

The *Semantic Web* is a major endeavor aiming at enriching the existing Web with meta-data and processing methods so as to provide web-based systems with advanced (so-called intelligent) capabilities, in particular with *context-awareness* and *decision support*.

The advanced capabilities striven for in most Semantic Web application scenarii primarily call for *reasoning*. Reasoning capabilities are offered by Semantic Web languages currently developed such as BPEL4WS, BPML, ConsVISor, DAML-S, JTP, Triple, and others. These languages, however, are developed mostly from functionality centered (e.g. ontology reasoning or access validation) or application centered (e.g. Web service retrieval and composition) perspectives. A perspective centered on the reasoning techniques (e.g. forward or backward chaining, tableau-like methods, constraint reasoning, etc.) complementing the above-mentioned activities appears desirable for Semantic Web systems and applications. The workshop is devoted to such a perspective.

Like the current Web is inherently heterogeneous in data formats and data semantics, the Semantic Web will be inherently heterogeneous in its reasoning forms. Indeed, any single form of reasoning turns out unrealistic in the Semantic Web. E.g. ontology reasoning in general relies on monotonic negation (for the meta-data often can be fully specified), while databases, Web databases, and Web-based information systems call for non-monotonic reasoning (for one would not specify in a railways timetable non-existing trains); constraint reasoning is needed in dealing with time (for time intervals are to be dealt with), while (forward and/or backward) chaining is the reasoning of choice in coping with database-like views (for views i.e. virtual data can be derived from actual data by operations such as join and projections).

The workshop on "Principle and Practice of Semantic Web Reasoning" will be a forum for discussing various forms of reasoning that are or can be used on the Semantic Web. The workshop will address both, reasoning methods for the Semantic Web and Semantic Web applications relying upon various forms of reasoning.

### Topics of interest include:

- Rule markup languages
- Constraint reasoning on the Semantic Web
- Default reasoning on the Semantic Web
- Fuzzy reasoning on the Semantic Web
- Inconsistency-tolerant reasoning on the Semantic Web
- Reasoning and querying on the Web
- Reasoning methods for Adaptive Web systems and applications
- Reasoning methods for Web-based decision support
- Reasoning methods for policy specification and conformance

### Important dates:

Submission deadline:	June 30, 2003
Notification to authors:	August 15, 2003
Camera-ready version:	September 15, 2003
Workshop date:	December 13, 2003

### Workshop organizing committee:

- [François Bry](mailto:bry@informatik.uni-muenchen.de) (workshop coordinator), [bry@informatik.uni-muenchen.de](mailto:bry@informatik.uni-muenchen.de)
- [Nicola Henze](mailto:henze@kbs.uni-hannover.de) (program committee chair), [henze@kbs.uni-hannover.de](mailto:henze@kbs.uni-hannover.de)
- [Jan Maluszynski](mailto:janma@ida.liu.se) (proceedings chair), [janma@ida.liu.se](mailto:janma@ida.liu.se)

**Programm committee:**

- [Krzysztof R. Apt](#), CWI, The Netherlands
- [François Bry](#), University of Munich, Germany
- [Georg Gottlob](#), University of Vienna, Austria
- [Nicola Henze](#), University of Hannover, Germany
- [Lalana Kagal](#), University of Maryland Baltimore County, USA
- [Luis Moniz Pereira](#), Universidade Nova de Lisboa, Portugal
- [Jan Maluszynski](#), University of Linköping, Sweden
- [Massimo Marchiori](#), W3C and University of Venice, Italy
- [Wolfgang Nejdl](#), University of Hannover, Germany

**Submission Guidelines:**

The proceedings of PPSWR'03 will be published by Springer in Lecture Notes in Computer Science ([LNCS](#)). For instructions on the LNCS format, see

<http://www.springer.de/comp/lncs/authors.html>.

Submissions must be formatted according to LNCS rules, and send electronically as PDF or Postscript via email to Nicola Henze ([henze@kbs.uni-hannover.de](mailto:henze@kbs.uni-hannover.de)). The email should have as subject "PPSWR2003 Submission", and should in the body mention title and author(s) of the submission, and the submission manuscript as ps or pdf attachment.

Two submission categories are accepted for the PPSWR'03:

- Full papers: 10 - 15 pages
- Short papers: 3 - 5 pages

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Questions, comments, problems, help? Please do not hesitate to ask Nicola Henze ([henze@kbs.uni-hannover.de](mailto:henze@kbs.uni-hannover.de)).