

Preface

RuleML 2005 was the first international conference on rules and rule markup languages for the Semantic Web, held in conjunction with the International Semantic Web Conference (ISWC) at Galway, Ireland. With the success of the RuleML workshop series came the need for extended research and applications topics organized in a conference format. RuleML 2005 also accommodated the first Workshop on OWL: Experiences and Directions.

Rules are widely recognized to be a major part of the frontier of the Semantic Web, and critical to the early adoption and applications of knowledge-based techniques in e-business, especially enterprise integration and B2B e-commerce. This includes knowledge representation (KR) theory and algorithms; markup languages based on such KR; engines, translators, and other tools; relationships to standardization efforts; and, not least, applications. Interest and activity in the area of rules for the Semantic Web has grown rapidly over the last five years. The RuleML 2005 Conference was aimed to be this year's premiere scientific conference on the topic. It continued in topic, leadership, and collaboration with the previous series of three highly successful annual international workshops (RuleML 2004, RuleML 2003 and RuleML 2002). The theme for RuleML 2005 was rule languages for reactive and proactive rules, complex event processing, and event-driven rules, to support the emergence of Semantic Web applications.

Special highlights of the RuleML 2005 conference included the keynote address by Sir Tim Berners-Lee, Director of W3C. His talk, titled "Web of Rules", discussed whether knowledge can be represented in a web-like way using rules, so as to derive serendipitous benefit from the unplanned reuse of such knowledge. The two other invited papers were by Dr. Opher Etzion of IBM Haifa Labs entitled "Towards an Event-Driven Architecture: An Infrastructure for Event Processing" and by Dr. Susie Stephens of Oracle USA on the application of Semantic Web technologies in life sciences entitled "Enabling Semantic Web Inferencing with Oracle Technology: Applications in Life Sciences".

We would like to thank our Steering and Program Committees as well as all colleagues who submitted papers to RuleML 2005. We would also like to thank the organizers of ISWC and the OWL Workshop for their cooperation and partnership. Special thanks go to IBM Haifa, Israel, for sponsoring RuleML 2005. Finally, we would like to thank GoWest for their conference planning services.

November 2005

Asaf Adi
Suzette Stoutenburg
Said Tabet

Organization

Conference Program Co-chairs

Asaf Adi, IBM, Israel
Suzette Stoutenburg, The MITRE Corporation, USA
Said Tabet, The RuleML Initiative, USA

Conference General Co-chairs

Harold Boley, National Research Council and University of New Brunswick, Canada
Benjamin Grosf, Massachusetts Institute of Technology, USA

Steering Committee

Asaf Adi, IBM, Israel
Grigoris Antoniou, University of Crete, FORTH, Greece
Harold Boley, National Research Council and University of New Brunswick, Canada
Benjamin Grosf, Massachusetts Institute of Technology, USA
Mike Dean, BBN Technologies, USA
Dieter Fensel, Digital Enterprise Research Institute (DERI),
National University of Ireland, Ireland
Michael Kifer, State University of New York at Stony Brook, USA
Steve Ross-Talbot, Pi4 Technologies, USA
Suzette Stoutenburg, The MITRE Corporation, USA
Said Tabet, The RuleML Initiative, USA
Gerd Wagner, Brandenburg University of Technology at Cottbus, Germany

Program Committee

Grigoris Antoniou, University of Crete, FORTH, Greece
Nick Bassiliades, Aristotle University of Thessaloniki, Greece
Harold Boley, National Research Council and University of New Brunswick, Canada
Mike Dean, BBN Technologies, USA
Dieter Fensel, Digital Enterprise Research Institute (DERI),
National University of Ireland, Ireland
Benjamin Grosf, Massachusetts Institute of Technology, USA
Guido Governatori, University of Queensland, Australia
Michael Kifer, State University of New York at Stony Brook, USA
Sandy Liu, National Research Council and University of New Brunswick, Canada
Jan Maluszynski, Linköping University, Sweden
Massimo Marchiori, W3C, MIT, USA and University of Venice, Italy

VIII Organization

Donald Nute, University of Georgia, USA

Royi Ronen, Technion, Israel

Michael Sintek, DFKI, Germany

Bruce Spencer, National Research Council and University of New Brunswick, Canada

Said Tabet, RuleML Initiative, USA

Dmitry Tsarkov, University of Manchester, UK

Carlos Viegas Damasio, Universidade Nova de Lisboa, Portugal

Gerd Wagner, Brandenburg University of Technology at Cottbus, Germany

Kewen Wang, Griffith University, Australia

Sponsors

IBM Haifa Labs

Rules and Rule Markup Languages for the Semantic
Web

First International Conference, RuleML 2005, Galway,
Ireland, November 10-12, 2005, Proceedings

Adi, A.; Stoutenburg, S.; Tabet, S. (Eds.)

2005, X, 225 p., Softcover

ISBN: 978-3-540-29922-6