ISWC 2008

The 7th International Semantic Web Conference

Pavel Shvaiko
Jérôme Euzenat
Fausto Giunchiglia
Heiner Stuckenschmidt

Ontology Matching (OM 2008)

October 26, 2008

The 7th International Semantic Web Conference
October 26 – 30, 2008
Congress Center, Karlsruhe, Germany

ISWC 2008

Platinum Sponsors

Ontoprise

Gold Sponsors

BBN
eyeworkers
Microsoft
NeOn
SAP Research
Vulcan

Silver Sponsors

ACTIVE
ADUNA
Saltlux
SUPER
X-Media
Yahoo

The 7th International Semantic Web Conference
October 26 – 30, 2008
Congress Center, Karlsruhe, Germany

ISWC 2008

Organizing Committee

General Chair
Tim Finin (University of Maryland, Baltimore County)

Local Chair
Rudi Studer (Universität Karlsruhe (TH), FZI Forschungszentrum Informatik)

Local Organizing Committee
Anne Eberhardt (Universität Karlsruhe)
Holger Lewen (Universität Karlsruhe)
York Sure (SAP Research Karlsruhe)

Program Chairs
Amit Sheth (Wright State University)
Steffen Staab (Universität Koblenz Landau)

Semantic Web in Use Chairs
Mike Dean (BBN)
Massimo Paolucci (DoCoMo Euro-labs)

Semantic Web Challenge Chairs
Jim Hendler (RPI, USA)
Peter Mika (Yahoo, ES)

Workshop chairs
Melliyal Annamalai (Oracle, USA)
Daniel Olmedilla (Leibniz Universität Hannover, DE)

Tutorial Chairs
Lalana Kagal (MIT)
David Martin (SRI)

Poster and Demos Chairs
Chris Bizer (Freie Universität Berlin)
Anupam Joshi (UMBC)

Doctoral Consortium Chairs
Diana Maynard (Sheffield)

Sponsor Chairs
John Domingue (The Open University)
Benjamin Grosof (Vulcan Inc.)

Metadata Chairs
Richard Cyganiak (DERI/Freie Universität Berlin)
Knud Möller (DERI)

Publicity Chair
Li Ding (RPI)

Proceedings Chair
Krishnaprasad Thirunarayan (Wright State University)

Fellowship Chair
Joel Sachs (UMBC)

Ontology Matching

OM-2008

Papers from the ISWC Workshop

Introduction

Ontology matching is a key interoperability enabler for the semantic web, since it takes the ontologies as input and determines as output an alignment, that is, a set of correspondences between the semantically related entities of those ontologies. These correspondences can be used for various tasks, such as ontology merging, query answering, data translation, or for navigation on the semantic web. Thus, matching ontologies allows the knowledge and data expressed in the matched ontologies to interoperate.

The workshop had two goals:

- To bring together academic and industry leaders to assess how academic advances are addressing real world requirements. The workshop strives to improve academic awareness of industrial needs, and therefore, direct research towards those needs. Simultaneously, the workshop serves to inform industry representatives about existing research efforts that may meet their business needs. Moreover, it is central to the aims of the workshop to evaluate how technologies for ontology matching are going to evolve, which research topics are in the academic agenda and how these can fit emerging business issues.

- To conduct an extensive, rigorous and transparent evaluation of ontology matching approaches through the OAEI (Ontology Alignment Evaluation Initiative) 2008 campaign, `http://oaei.ontologymatching.org/2008`. The particular focus of this year's OAEI campaign is on real-world matching tasks from specific domains, such as cultural heritage and medicine. Moreover, there are several multi-lingual matching tasks that involve Japanese and Dutch languages. Therefore, the ontology matching evaluation initiative itself will provide a solid ground for discussion of how well the current approaches are meeting business needs.

We received 26 submissions for the technical track of the workshop. The program committee selected 6 submissions for oral presentation and 9 submissions for poster presentation. 13 matching systems participated in this year's OAEI campaign. Further information about the Ontology Matching workshop can be found at: `http://om2008.ontologymatching.org/`.

Acknowledgments. We thank all members of the program committee, authors and local organizers for their efforts. We appreciate support from the Trentino as a Lab (TasLab) project of the European Network of the Living Labs at Informatica Trentina and the OpenKnowledge European STREP (FP6-027253).

Pavel Shvaiko
Jérôme Euzenat
Fausto Giunchiglia
Heiner Stuckenschmidt

October 2008

Organization

Organizing Committee

Pavel Shvaiko, TasLab, Informatica Trentina, Trento, Italy
Jérôme Euzenat, INRIA & LIG, Grenoble, France
Fausto Giunchiglia, University of Trento, Trento, Italy
Heiner Stuckenschmidt, University of Mannheim, Mannheim, Germany

Program Committee

Olivier Bodenreider, National Library of Medicine, USA
Paolo Bouquet, University of Trento, Italy
Paolo Besana, University of Edinburgh, UK
Isabel Cruz, University of Illinois at Chicago, USA
Jérôme David, INRIA & LIG, France
Wei Hu, Southeast University, China
Ryutaro Ichise, National Institute of Informatics, Japan
Antoine Isaac, Vrije Universiteit Amsterdam, Netherlands
Anthony Jameson, DFKI, Germany
Yannis Kalfoglou, Ricoh Europe plc., UK
Vipul Kashyap, Clinical Informatics R&D, Partners HealthCare System, USA
Monika Lanzenberger, Vienna University of Technology, Austria
Patrick Lambrix, Linköpings Universitet, Sweden
Christian Meilicke, University of Mannheim, Germany
Peter Mork, The MITRE Corporation, USA
Natasha Noy, Stanford University, USA
Luigi Palopoli, University of Calabria, Italy
Ivan Pilati, TasLab, Informatica Trentina, Italy
Marco Schorlemmer, IIIA-CSIC, Spain
Luciano Serafini, FBK-IRST, Italy
Umberto Straccia, ISTI-C.N.R., Italy
Eleni Stroulia, University of Alberta, Canada
York Sure, SAP, Germany
Ludger van Elst, DFKI, Germany
Yannis Velegrakis, University of Trento, Italy
Baoshi Yan, Bosch Research, USA
Songmao Zhang, Chinese Academy of Sciences, China

Additional Reviewers

Pasquale De Meo, University Mediterranea of Reggio Calabria, Italy
Birgit Dippelreiter, Vienna University of Technology, Austria
Markus Doehring, SAP, Germany
Ji Hu, SAP, Germany
Daniel Oberle, SAP, Germany
Giovanni Quattrone, University Mediterranea of Reggio Calabria, Italy
Massimo Ruffolo, ICAR-C.N.R., Italy
Martina Seidl, Vienna University of Technology, Austria

Table of Contents

PART 1 - Technical Papers

PART 2 - OAEI Papers

PART 3 - Posters