

# Ontology Matching

## OM-2010

Papers from the ISWC Workshop

### Introduction

Ontology matching<sup>1</sup> is a key interoperability enabler for the Semantic Web, as well as a useful tactic in some classical data integration tasks. 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 and data translation. Thus, matching ontologies enables the knowledge and data expressed in the matched ontologies to interoperate.

The workshop has two goals:

- To bring together leaders from *academia*, *industry* and *user institutions* to assess how academic advances are addressing real-world requirements. The workshop strives to improve academic awareness of industrial and final user needs, and therefore, direct research towards those needs. Simultaneously, the workshop serves to inform industry and user representatives about existing research efforts that may meet their requirements. The workshop also investigates how the ontology matching technology is going to evolve.
- To conduct an extensive and rigorous evaluation of ontology matching approaches through the OAEI (Ontology Alignment Evaluation Initiative) 2010 campaign<sup>2</sup>. The particular focus of this year's OAEI campaign is on real-world specific matching tasks involving, e.g., biomedical ontologies and linked data. Thus, the ontology matching evaluation initiative itself provides a solid ground for discussion of how well the current approaches are meeting business needs.

We received 29 submissions for the technical track of the workshop. The program committee selected 7 submissions for oral presentation and 13 submissions for poster presentation. 15 matching systems participated in this year's OAEI campaign. Further information about the Ontology Matching workshop can be found at: <http://om2010.ontologymatching.org/>.

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<sup>1</sup><http://www.ontologymatching.org/>

<sup>2</sup><http://oei.ontologymatching.org/2010>

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<sup>3</sup><http://www.taslab.eu>

<sup>4</sup><http://www.openlivinglabs.eu>

<sup>5</sup><http://www.infotn.it>

<sup>6</sup><http://www.seals-project.eu>

<sup>7</sup>[http://www.semanticvalley.org/index\\_eng.htm](http://www.semanticvalley.org/index_eng.htm)

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# Table of Contents

## PART 1 - Technical Papers

Linguistic analysis for complex ontology matching <i>Dominique Ritze, Johanna Völker, Christian Meilicke and Ondřej Šváb-Zamazal</i> .....	1
Lost in translation? Empirical analysis of mapping compositions for large ontologies <i>Anna Tordai, Amir Ghazvinian, Jacco van Ossenbruggen, Mark Musen and Natasha Noy</i> .....	13
Chinese whispers and connected alignments <i>Oliver Kutz, Immanuel Normann, Till Mossakowski and Dirk Walther</i> .....	25
Consistency-driven argumentation for alignment agreement <i>Cássia Trojahn and Jérôme Euzenat</i> .....	37
Alignment based measure of the distance between potentially common parts of lightweight ontologies <i>Ammar Mechouche, Nathalie Abadie and Sébastien Mustière</i> .....	49
Mapping the central LOD ontologies to PROTON upper-level ontology <i>Mariana Damova, Atanas Kiryakov, Kiril Simov and Svetoslav Petrov</i> .....	61
Ontology alignment in the cloud <i>Jürgen Bock, Alexander Lenk and Carsten Dänschel</i> .....	73

## PART 2 - OAEI Papers

First results of the Ontology Alignment Evaluation Initiative 2010 <i>Jérôme Euzenat, Alfio Ferrara, Christian Meilicke, Juan Pane, François Scharffe, Pavel Shvaiko, Heiner Stuckenschmidt, Ondřej Šváb-Zamazal, Vojtěch Svátek, and Cássia Trojahn dos Santos</i> . . . .	85
Using AgreementMaker to align ontologies for OAEI 2010: <i>Isabel Cruz, Cosmin Stroe, Michele Caci, Federico Caimi, Matteo Palmonari, Flavio Palandri Antonelli and Ulas C. Keles</i> . . . . .	121
ASMOV: results for OAEI 2010 <i>Yves R. Jean-Mary, E. Patrick Shironoshita and Mansur R. Kabuka</i> . . . .	129
BLOOMS on AgreementMaker: results for OAEI 2010 <i>Catia Pesquita, Cosmin Stroe, Isabel Cruz and Francisco Couto</i> . . . . .	137
CODI: Combinatorial Optimization for Data Integration: results for OAEI 2010 <i>Jan Noessner and Mathias Niepert</i> . . . . .	142
Eff2Match results for OAEI 2010 <i>Watson Wei Khong Chua and Jung-Jae Kim</i> . . . . .	150
ObjectCoref & Falcon-AO: results for OAEI 2010 <i>Wei Hu, Jianfeng Chen, Gong Cheng and Yuzhong Qu</i> . . . . .	158
An integrated matching system GeRoMeSuite and SMB: results for OAEI 2010 <i>Christoph Quix, Avigdor Gal, Tomer Sagi and David Kenschke</i> . . . . .	166
LN2R a knowledge based reference reconciliation system: OAEI 2010 results <i>Fatiha Saïs, Nobal Niraula, Nathalie Pernelle and Marie-Christine Rousset</i> . . . . .	172
MapPSO results for OAEI 2010 <i>Jürgen Bock</i> . . . . .	180
Results of NBJLM for OAEI 2010 <i>Song Wang, Gang Wang and Xiaoguang Liu</i> . . . . .	187
RiMOM results for OAEI 2010 <i>Zhichun Wang, Xiao Zhang, Lei Hou, Yue Zhao, Juanzi Li, Yu Qi and Jie Tang</i> . . . . .	195
Alignment results of SOBOM for OAEI 2010 <i>Peigang Xu, Yadong Wang, Liang Cheng and Tianyi Zang</i> . . . . .	203

TaxoMap alignment and refinement modules: results for OAEI 2010  
*Fayçal Hamdi, Brigitte Safar, Nopal Niraula and Chantal Reynaud* ..... 212

### PART 3 - Posters

Towards a UMLS-based silver standard for matching biomedical ontologies <i>Ernesto Jiménez-Ruiz, Bernardo Cuenca Grau, Ian Horrocks and Rafael Berlanga</i> .....	220
From French EHR to NCI ontology via UMLS <i>Paolo Besana, Marc Cuggia, Oussama Zekri, Annabel Bourde and Anita Burgun</i> .....	222
From mappings to modules: using mappings to identify domain-specific modules in large ontologies <i>Amir Ghazvinian, Natasha Noy and Mark Musen</i> .....	224
Harnessing the power of folksonomies for formal ontology matching on-the-fly <i>Theodosia Togia, Fiona McNeill and Alan Bundy</i> .....	226
Concept abduction for semantic matchmaking in distributed and modular ontologies <i>Viet-Hoang Vu and Nhan Le-Thanh</i> .....	228
LingNet: networking linguistic and terminological ontologies <i>Wim Peters</i> .....	230
Aggregation of similarity measures in ontology matching <i>Lihua Zhao and Ryutaro Ichise</i> .....	232
Using concept and structure similarities for ontology integration <i>Xiulei Liu, Payam Barnaghi, Klaus Moessner and Jianxin Liao</i> .....	234
Flexible bootstrapping-based ontology alignment <i>Prateek Jain, Pascal Hitzler and Amit Sheth</i> .....	236
Semantic matching of ontologies <i>Christoph Quix, Marko Pascan, Pratanu Roy and David Kenschke</i> .....	238
Ontology mapping neural network: an approach to learning and inferring correspondences among ontologies <i>Yefei Peng, Paul Munro and Ming Mao</i> .....	240
Towards tailored domain ontologies <i>Cheikh Niang, Béatrice Bouchou and Moussa Lo</i> .....	242
Crowd sourcing through social gaming for community driven ontology engineering, results and observations <i>Alloy Martin Chua, Roland Christian Chua, Arthur Vincent Dychiching, Tinmon Ang, Jose Lloyd Espiritu, Nathalie Rose Lim and Danny Cheng</i> .....	244





