Ontology Matching

OM-2010

Proceedings of the ISWC Workshop

Introduction

Ontology matching[1] 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[2]. The particular focus of this year's OAEI campaign is on real-world specific matching tasks involving, e.g., biomedical ontologies and open 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/`.

[1] `http://www.ontologymatching.org/`
[2] `http://oaei.ontologymatching.org/2010`

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Pavel Shvaiko
Jérôme Euzenat
Fausto Giunchiglia
Heiner Stuckenschmidt
Ming Mao
Isabel Cruz

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[3] http://www.taslab.eu
[4] http://www.openlivinglabs.eu
[5] http://www.infotn.it
[6] http://www.seals-project.eu
[7] http://www.semanticvalley.org/index_eng.htm

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Ming Mao, SAP Labs, USA
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