Ontology Matching
OM-2020

Proceedings of the ISWC Workshop

Introduction

Ontology matching is a key interoperability enabler for the semantic web, as well as a useful tactic in some classical data integration tasks dealing with the semantic heterogeneity problem. It takes 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, data translation, query answering or navigation over knowledge graphs. Thus, matching ontologies enables the knowledge and data expressed with the matched ontologies to interoperate.

The workshop had three 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 investigated how the ontology matching technology is going to evolve.

• To conduct an extensive and rigorous evaluation of ontology matching and instance matching (link discovery) approaches through the OAEI (Ontology Alignment Evaluation Initiative) 2020 campaign.

• To examine similarities and differences from other, old, new and emerging, techniques and usages, such as process matching, web table matching or knowledge embeddings.

The program committee selected 6 long and 4 short submissions for oral presentation and 6 submissions for poster presentation. 19 matching systems participated in this year’s OAEI campaign. Further information about the Ontology Matching workshop can be found at [http://om2020.ontologymatching.org/](http://om2020.ontologymatching.org/)
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# Table of Contents

## Long Technical Papers

Using domain lexicon and grammar for ontology matching  
*Francisco José Quesada Real, Gábor Bella, Fiona McNeill, Alan Bundy*  
1

Semantic schema mapping for interoperable data-exchange  
*Harshvardhan J. Pandit, Damien Graux, Fabrizio Orlandi, Ademar Crotti Junior, Declan O’Sullivan, Dave Lewis*  
13

A gold standard dataset for large knowledge graphs matching  
*Omaima Fallatah, Ziqi Zhang, Frank Hopfgartner*  
24

Applying edge-counting semantic similarities to link discovery: scalability and accuracy  
*Kleanthi Georgala, Mohamed Ahmed Sherif, Michael Röder, Axel-Cyrille Ngonga Ngomo*  
36

LIGON - link discovery with noisy oracles  
*Mohamed Ahmed Sherif, Kevin Dreßler, Axel-Cyrille Ngonga Ngomo*  
48

Supervised ontology and instance matching with MELT  
*Sven Hertling, Jan Portisch, Heiko Paulheim*  
60

## Short Technical Papers

Learning reference alignments for ontology matching within and across domains  
*Beatriz Lima, Ruben Branco, João Castanheira, Gustavo Fonseca, Catia Pesquita*  
72

SUBINTERNM: optimizing the matching of networks of ontologies  
*Fabio Santos, Kate Revored, Fernanda Baião*  
77

A survey of OpenRefine reconciliation services  
*Antonin Delpeuch*  
82

LIGER - link discovery with partial recall  
*Kleanthi Georgala, Mohamed Ahmed Sherif, Axel-Cyrille Ngonga Ngomo*  
87
OAEI Papers

Results of the Ontology Alignment Evaluation Initiative 2020


ALIN results for OAEI 2020

Jomar da Silva, Carla Delgado, Kate Revoredo, Fernanda Baião .................. 139

ALOD2Vec matcher results for OAEI 2020

Jan Portisch, Michael Hladik, Heiko Paulheim ............................................. 147

OAEI 2020 results for AML and AMLC

Beatriz Lima, Daniel Faria, Francisco M. Couto, Isabel F. Cruz,
Catia Pesquita ................................................................. 154

AROA results for OAEI 2020

Lu Zhou, Pascal Hitzler ............................................................. 161

ATBox results for OAEI 2020

Sven Hertling, Heiko Paulheim .......................................................... 168

Results of CANARD in OAEI 2020

Elodie Thiéblin, Ollivier Haemmerlé, Cássia Trojahn .............................. 176

DESKMatcher

Michael Monych, Jan Portisch, Michael Hladik, Heiko Paulheim ................ 181

FTRLIM results for OAEI 2020

Xiaowen Wang, Yizhi Jiang, Hongfei Fan,
Hongming Zhu, Qin Liu ........................................................................ 187

Lily results for OAEI 2020

Yunyan Hu, Shaochen Bai, Shiyi Zou, Peng Wang ................................ 194

LogMap family participation in the OAEI 2020

Ernesto Jiménez-Ruíz ................................................................. 201

OntoConnect: results for OAEI 2020

Jaydeep Chakraborthy, Beyza Yaman, Luca Virgili, Krishanu Konar,
Srividyá Bansal ........................................................................ 204
RE-miner for data linking results for OAEI 2020
Armita Khajeh Nassiri, Nathalie Pernelle, Fatiha Saïs, Gianluca Quercini . . . . . 211

VeeAlign: a supervised deep learning approach to ontology alignment
Vivek Iyer, Arvind Agarwal, Harshit Kumar .......................... 216

Wiktionary matcher results for OAEI 2020
Jan Portisch, Heiko Paulheim ................................. 225
Posters

Ontology alignment in ecotoxicological effect prediction
Erik B. Myklebust, Ernesto Jiménez-Ruiz, Jiaoyan Chen, Raoul Wolf, Knut Erik Tollefsen .......................... 233

Towards semantic alignment of heterogeneous structures and its application to digital humanities
Renata Vieira, Cásia Trojahn ........................................... 235

Ontology matching for the laboratory analytics domain
Ian Harrow, Thomas Liener, Ernesto Jiménez-Ruiz .......................... 237

Towards matching of domain ontologies to cross-domain ontology: evaluation perspective
Martin Šatra, Ondřej Zamazal ........................................... 239

Towards a vocabulary for mapping quality assessment
Alex Randles, Ademar Crotti Junior, Declan O’Sullivan .......................... 241

TableCNN: deep learning framework for learning tabular data
Pranav Sankhe, Elham Khabiri, Bhavna Agrawal, Yingjie Li ...................... 243