Ontology Matching
OM-2019

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) 2019 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 3 long and 2 short submissions for oral presentation and 7 submissions for poster presentation. 20 matching systems participated in this year’s OAEI campaign. Further information about the Ontology Matching workshop can be found at: [http://om2019.ontologymatching.org/](http://om2019.ontologymatching.org/).


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Pavel Shvaiko
Jérôme Euzenat
Ernesto Jiménez-Ruiz
Oktie Hassanzadeh
Cássia Trojahn

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Organization

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*Trentino Digitale SpA, Italy*

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*City, Univeristy of London, UK & SIRIUS, Univeristy of Oslo, Norway*

Oktie Hassanzadeh,
*IBM Research, USA*

Cássia Trojahn,
*IRIT, France*

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Ondřej Zamazal, Prague University of Economics, Czech Republic
Songmao Zhang, Chinese Academy of Sciences, China
Table of Contents

Long Technical Papers

Matching ontologies for air traffic management:
a comparison and reference alignment of the AIRM and NASA ATM ontologies
Audun Vennesland, Richard M. Keller, Christoph G. Schuetz,
Eduard Gringinger, Bernd Neumayr ........................................ 1

Multi-view embedding for biomedical ontology matching
Weizhuo Li, Xuxiang Duan, Meng Wang, XiaoPing Zhang, Guillin Qi ............... 13

Identifying mappings among knowledge graphs by formal concept analysis
Guowei Chen, Songmao Zhang ......................................................... 25

Short Technical Papers

Hypernym relation extraction for establishing subsumptions:
preliminary results on matching foundational ontologies
Mouna Kamel, Daniela Schmidt, Càssia Trojahn, Renata Vieira ................. 36

Generating corrupted data sources for the evaluation of matching systems
Fiona McNeill, Diana Bental, Alasdair Gray,
Sabina Jedrzejczyk, Ahmad Alsadeeqi ........................................... 41
OAEI Papers

Results of the Ontology Alignment Evaluation Initiative 2019
Alsayed Algergawy, Daniel Faria, Alfio Ferrara, Irini Fundulaki,
Ian Harrow, Sven Hertling, Ernesto Jiménez-Ruiz, Naouel Karam,
Abderrahmane Khiat, Patrick Lambrix, Huanyu Li, Stefano Montanelli,
Heiko Paulheim, Catia Pesquita, Tzanina Saveta, Pavel Shvaiko,
Andrea Splendiani, Elodie Thiéblin, Cássia Trojahn,
Jana Vataščinová, Ondřej Zamazal, Lu Zhou ................................. 46

AnyGraphMatcher submission to the OAEI
knowledge graph challenge 2019
Alexander Lütke ................................................................. 86

ALIN results for OAEI 2019
Jomar da Silva, Carla Delgado, Kate Revoredo, Fernanda Baião ........ 94

AML and AMLC results for OAEI 2019
Daniel Faria, Catia Pesquita, Teemu Tervo,
Francisco M. Couto, Isabel F. Cruz ........................................ 101

AROA results for 2019 OAEI
Lu Zhou, Michelle Cheatham, Pascal Hitzler .............................. 107

CANARD complex matching system:
results of the 2019 OAEI evaluation campaign
Elodie Thiéblin, Ollivier Haemmerlé, Cássia Trojahn .................. 114

DOME results for OAEI 2019
Sven Hertling, Heiko Paulheim ............................................. 123

EVOCROS: results for OAEI 2019
Juliana Medeiros Destro, Javier A. Vargas,
Julio Cesar dos Reis, Ricardo da S. Torres ............................. 131

FCAMap-KG results for OAEI 2019
Fei Chang, Guowei Chen, Songmao Zhang ............................ 138

FTRLIM results for OAEI 2019
Xiaowen Wang, Yizhi Jiang, Yi Luo, Hongfei Fan,
Hua Jiang, Hongming Zhu, Qin Liu ...................................... 146

Lily results for OAEI 2019
Jiangheng Wu, Zhe Pan, Ce Zhang, Peng Wang ...................... 153

LogMap family participation in the OAEI 2019
Ernesto Jiménez-Ruiz ......................................................... 160
ONTMAT1: results for OAEI 2019
Saida Gherbi, Mohamed Tarek Khadir ........................................ 164

POMap++ results for OAEI 2019:
fully automated machine learning approach for ontology matching
Amir Laadhar, Faiza Ghozzi, Imen Megdiche, Franck Ravat,
Olivier Teste, Faiez Gargouri .................................................. 169

SANOM results for OAEI 2019
Majid Mohammadi, Amir Ahooye Atashin, Wout Hofman, Yao-Hua Tan ........ 175

Wiktionary matcher
Jan Portisch, Michael Hladik, Heiko Paulheim .............................. 181
Posters

MultiKE: a multi-view knowledge graph embedding framework for entity alignment
Wei Hu, Qingheng Zhang, Zequn Sun, Jiacheng Huang ............................. 189

MTab: matching tabular data to knowledge graph with probability models
Phuc Nguyen, Natthawut Kertkeidkachorn, Ryutaro Ichise, Hideaki Takeda ........................................... 191

Generating referring expressions from knowledge graphs
Armita Khajeh Nassiri, Nathalie Pernelle, Fatiha Saiïs ....................... 193

Semantic table interpretation using MantisTable
Marco Cremaschi, Anisa Rula, Alessandra Siano, Flavio De Paoli .................. 195

Towards explainable entity matching via comparison queries
Alina Petrova, Egor V. Kostylev, Bernardo Cuenca Grau, Ian Horrocks .......................................................... 197

Discovering expressive rules for complex ontology matching and data interlinking
Manuel Atencia, Jérôme David, Jérôme Euzenat, Liliana Ibanescu, Nathalie Pernelle, Fatiha Saiïs, Elodie Thiéblin, Cássia Trojahn ....................... 199

Decentralized reasoning on a network of aligned ontologies with link keys
Jérémy Lhez, Chan Le Duc, Thinh Dong, Myriam Lamolle .................... 201