## Contents

### Open Knowledge Extraction Challenge

The Second Open Knowledge Extraction Challenge .......................... 3  
*Andrea Giovanni Nuzzolese, Anna Lisa Gentile, Valentina Presutti, Aldo Gangemi, Robert Meusel, and Heiko Paulheim*

Enhancing Entity Linking by Combining NER Models .......................... 17  
*Julien Plu, Giuseppe Rizzo, and Raphaël Troncy*

Collective Disambiguation and Semantic Annotation for Entity Linking and Typing ................................................................. 33  
*Mohamed Chabchoub, Michel Gagnon, and Amal Zouaq*

DWS at the 2016 Open Knowledge Extraction Challenge: A Hearst-Like Pattern-Based Approach to Hypernym Extraction and Class Induction .......................... 48  
*Stefano Faralli and Simone Paolo Ponzetto*

Entity Typing and Linking Using SPARQL Patterns and DBpedia ........... 61  
*Lara Haidar-Ahmad, Ludovic Font, Amal Zouaq, and Michel Gagnon*

### Challenge on Semantic Sentiment Analysis

Challenge on Fine-Grained Sentiment Analysis Within ESWC2016 ............ 79  
*Mauro Dragoni and Diego Reforgiato Recupero*

App2Check Extension for Sentiment Analysis of Amazon Products Reviews ................................................................. 95  
*Emanuele Di Rosa and Alberto Durante*

Sentiment Polarity Detection from Amazon Reviews:  
An Experimental Study ................................................................. 108  
*Efstratios Sygkounas, Giuseppe Rizzo, and Raphaël Troncy*

Exploiting Propositions for Opinion Mining ........................................ 121  
*Andi Rexha, Mark Kröll, Mauro Dragoni, and Roman Kern*

The IRMUDOSA System at ESWC-2016 Challenge on Semantic Sentiment Analysis ................................................................. 126  
*Giulio Petrucci and Mauro Dragoni*

A Knowledge-Based Approach for Aspect-Based Opinion Mining ............ 141  
*Marco Federici and Mauro Dragoni*
Aspect-Based Sentiment Analysis Using a Two-Step Neural Network Architecture. Soufian Jebbara and Philipp Cimiano 153

Challenge on Question Answering over Linked Data

6th Open Challenge on Question Answering over Linked Data (QALD-6) Christina Unger, Axel-Cyrille Ngonga Ngomo, and Elena Cabrio 171

SPARKLIS on QALD-6 Statistical Questions Sébastien Ferré 178

Top-k Shortest Paths in Large Typed RDF Datasets Challenge

Top-K Shortest Paths in Large Typed RDF Datasets Challenge. Ioannis Papadakis, Michalis Stefanidakis, Phivos Mylonas, Brigitte Endres Niggemeyer, and Spyridon Kazanas 191

Top-k Shortest Paths in Directed Labeled Multigraphs Sven Hertling, Markus Schröder, Christian Jilek, and Andreas Dengel 200

Modified MinG Algorithm to Find Top-K Shortest Paths from large RDF Graphs Zohaib Hassan, Mohammad Abdul Qadir, Muhammad Arshad Islam, Umer Shahzad, and Nadeem Akhter 213

Using Triple Pattern Fragments to Enable Streaming of Top-k Shortest Paths via the Web Laurens De Vocht, Ruben Verborgh, and Erik Mannens 228

Semantic Publishing Challenge

Semantic Publishing Challenge – Assessing the Quality of Scientific Output in Its Ecosystem Anastasia Dimou, Angelo Di Iorio, Christoph Lange, and Sahar Vahdati 243

Reconstructing the Logical Structure of a Scientific Publication Using Machine Learning Stefan Klampfl and Roman Kern 255

Semantic Web Challenges
Third SemWebEval Challenge at ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Revised Selected Papers
Sack, H.; Dietze, S.; Tordai, A.; Lange, C. (Eds.)
2016, XIII, 321 p. 79 illus., Softcover
ISBN: 978-3-319-46564-7