

## **SEMAPRO 2018**

The Twelfth International Conference on Advances in Semantic Processing

November 18 - 22, 2018

Athens, Greece

## SEMAPRO 2018 Editors

Michael Spranger, Hochschule Mittweida, University of Applied Sciences,

Germany

Pascal Lorenz, University of Haute Alsace, France

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2018) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2019)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

## **Table of Contents**

Investigating Argument Relatedness Based on Linguistic Knowledge Marie Garnier, Sarah Bourse, and Patrick Saint-Dizier	1
Word Embeddings of Monosemous Words in Dictionary for Word Sense Disambiguation Minoru Sasaki	4
An Ontology for Cultural Heritage Protection against Climate Change Jurgen Mossgraber, Paraskevi Pouli, Desiree Hilbring, Guiseppina Padeletti, and Tobias Hellmund	8
A Survey of Ontology Learning from Text Kaoutar Belhoucine and Mohammed Mourchid	14
Towards an Automated System for Music Event Detection Jian Xi, Michael Spranger, Hanna Siewerts, and Dirk Labudde	22
Italian Domain-specific Thesaurus as a Means of Semantic Control for Cybersecurity Terminology <i>Claudia Lanza</i>	28
Extended Functionality of Mathematical Formulae Search Service Alexander Gusenkov, Polina Gusenkova, Yana Palacheva, and Olga Zhibrik	35
Tedi: a Platform for Ontologisation of Multilingual Terminologies for the Semantic Web Maria Papadopoulou and Christophe Roche	42
Estimating Semantic Similarity for Targeted Marketing based on Fuzzy Sets and the Odenet Ontology <i>Tim vor der Bruck</i>	48