

ALLDATA 2016

The Second International Conference on Big Data, Small Data, Linked Data and Open Data

KESA 2016

The International Workshop on Knowledge Extraction and Semantic Annotation

February 21 - 25, 2016

Lisbon, Portugal

ALLDATA 2016 Editors

Venkat Gudivada, East Carolina University, USA Dumitru Roman, SINDEF/University of Oslo, Norway Maria Pia di Buono, University of Salerno, Italy Mario Monteleone, University of Salerno, Italy

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© (4238) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (4238)

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: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

AScale: Simple and Fast ETL+Q Scaling for Small and Big Data Pedro Martins, Maryam Abbasi, and Pedro Furtado	1
Informed Consent and Privacy of De-Identified Information and Estimated Data: Lessons from Iceland and the United States in an Era of Computational Genomics <i>Donna M. Gitter</i>	7
Social Sentiment Indices Powered by X-Scores Brian Davis, Keith Cortis, Laurentiu Vasiliu, Adamantios Koumpis, Ross McDermott, and Siegfried Handschuh	12
Stream Mining Revised Sayaka Akioka	18
Data Quality Centric Application Framework for Big Data Venkat Gudivada, Dhana Rao, and William Grosky	24
Combining "Small Data" from Surveys and "Big Data" from Online Experiments at Pinterest <i>Jolie Martin</i>	33
Unsupervised Aircraft Trajectories Clustering: a Minimum Entropy Approach Florence Nicol and Stephane Puechmorel	35
Modelling Support for a Linked Data Approach to Tool Interoperability Jad El-khoury, Didem Gurdur, Frederic Loiret, Martin Torngren, Da Zhang, and Mattias Nyberg	42
Reasoning with Place Information on the Linked Data Web Alia Abdelmoty and Khalid Al-Muzaini	48
Graph-based Data Integration in EUDAT Data Infrastructure Jedrzej Rybicki, Vasily Bunakov, Paolo D'Onorio De Meo, Stephan Kindermann, and Anna Queralt	54
IPR Issues in Data Sharing via Linkage of Platforms and Apps Iryna Lishchuk, Marc Stauch, and Nikolaus Forgo	59
Modelling the Cost of Open Data Jolon Faichney, Bela Stantic, Yasaman Moaven, Sanjeev Hiremath, and John Galvin	65
Link Detection Based on Named Entity Keywords in Turkish News Corpus Hamid Ahmadlouei, Hayri Sever, and Erhan Mengusoglu	71

Using Domain Ontologies for Classification and Semantic Interpretation of Documents Samia Iltache, Catherine Comparot, Malik Si Mohammed, and Pierre-Jean Charrel	76
Extraction of Business Information on the web to Supply a Geolocated Search Service Armel Fotsoh Tawofaing, Christian Sallaberry, Annig Le Parc - Lacayrelle, and Tanguy Moal	82
A Semantic Annotation Model for Syntactic Parsing in Ontology Learning Task Maria Pia di Buono and Mario Monteleone	86
Semantic Annotation to Support Decision Making Francesca Parisi	90
An Ontology-based Method for Discovering Specific Concepts from Texts via Knowledge Completion Celine Alec, Chantal Reynaud-Delaitre, and Brigitte Safar	96
Analyzing the Retirement Satisfaction Predictors among Men and Women Using a Multi-Layer Feed Forward Neural Network and Decision Trees Ehsan Ardjmand, Gary Weckman, Diana Schwerha, and Andrew Snow	102
Group Method of Data Handling: How Does it Measure Up? Poorani Selvaraj, Gary Weckman, and Andrew Snow	108
A Novel Event-based Method for Abducting Evolutional Motivation of Empirical Engineering Knowledge Xinyu Li, Zuhua Jiang, Lijun Liu, and Puling Liu	114