

Contents

Knowledge Discovery and Information Retrieval

Efficient Discovery of Episode Rules with a Minimal Antecedent and a Distant Consequent.	3
<i>Lina Fahed, Armelle Brun, and Anne Boyer</i>	
URL-Based Web Page Classification: With n-Gram Language Models.	19
<i>Tarek Amr Abdallah and Beatriz de La Iglesia</i>	
Exploiting Guest Preferences with Aspect-Based Sentiment Analysis for Hotel Recommendation.	34
<i>Fumiyo Fukumoto, Hiroki Sugiyama, Yoshimi Suzuki, and Suguru Matsuyoshi</i>	
Iterative Refining of Category Profiles for Nearest Centroid Cross-Domain Text Classification.	50
<i>Giacomo Domeniconi, Gianluca Moro, Roberto Pasolini, and Claudio Sartori</i>	
Cluster Summarization with Dense Region Detection.	68
<i>Elnaz Bigdeli, Mahdi Mohammadi, Bijan Raahemi, and Stan Matwin</i>	
Content-Based News Recommendation: Comparison of Time-Based System and Keyphrase-Based System	84
<i>Servet Tasci and Ilyas Cicekli</i>	
Techniques for Processing LSI Queries Incorporating Phrases.	99
<i>Roger Bradford</i>	
Determining the Relative Importance of Webpages Based on Social Signals Using the Social Score and the Potential Role of the Social Score in an Asynchronous Social Search Engine	118
<i>Marco Buijs and Marco Spruit</i>	
A Novel Knowledge-Based Architecture for Concept Mining on Italian and English Texts	132
<i>Dante Degl'Innocenti, Dario De Nart, and Carlo Tasso</i>	
A Generic and Declarative Method for Symmetry Breaking in Itemset Mining	143
<i>Belaïd Benhamou, Saïd Jabbour, Lakhdar Sais, and Yacoub Salhi</i>	

Enhancing Online Discussion Forums with Topic-Driven Content Search and Assisted Posting	161
<i>Damiano Distante, Alejandro Fernandez, Luigi Cerulo, and Aaron Visaggio</i>	
Random Perturbations of Term Weighted Gene Ontology Annotations for Discovering Gene Unknown Functionalities.	181
<i>Giacomo Domeniconi, Marco Masseroli, Gianluca Moro, and Pietro Pinoli</i>	
Building MD Analytical Stars Using a Visual Linked Data Query Builder . . .	198
<i>Victoria Nebot and Rafael Berlanga</i>	
Modeling Sentiment Polarity with Meta-features to Achieve Domain-Independence	212
<i>Octavian Lucian Hasna, Florin Cristian Măcicășan, Mihaela Dînșoreanu, and Rodica Potolea</i>	
An Improved String Similarity Measure Based on Combining Information-Theoretic and Edit Distance Methods	228
<i>Thi Thuy Anh Nguyen and Stefan Conrad</i>	
Named Entity Recognition from Financial Press Releases.	240
<i>Rebecca J. Passonneau, Tifara Ramelson, and Boyi Xie</i>	
Knowledge Engineering and Ontology Development	
A New Similarity Measure for an Ontology Matching System	257
<i>Lorena Otero-Cerdeira, Francisco J. Rodríguez-Martínez, Tito Valencia-Requejo, and Alma Gómez-Rodríguez</i>	
Techniques for Merging Upper Ontologies.	273
<i>Carmen Chui and Michael Grüninger</i>	
Ontological Support for Modelling Planning Knowledge	293
<i>Gerhard Wickler, Lukáš Chrpá, and Thomas Leo McCluskey</i>	
Extending Ontological Categorization Through a Dual Process Conceptual Architecture.	313
<i>Antonio Lieto, Daniele P. Radicioni, Marcello Frixione, and Valentina Rho</i>	
Multiple Dimensions to Data-Driven Ontology Evaluation	329
<i>Hlomani Hloman and Deborah A. Stacey</i>	
A Semi-automatic Approach to Build XML Document Warehouse	347
<i>Ines Ben Messaoud, Jamel Feki, and Gilles Zurfluh</i>	

Improving General Knowledge Sharing via an Ontology of Knowledge Representation Language Ontologies 364
J r my B nard and Philippe Martin

Towards an Approach for Configuring Ontology Validation 388
Mounira Harzallah, Giuseppe Berio, and Pascale Kuntz

A Tool for Complete OWL-S Services Annotation by Means of Concept Networks. 405
D. Redavid, S. Ferilli, B. De Carolis, and F. Esposito

Interview Based DEMO Axioms’ Benefits Validation: A Regional Government Case Study 421
David Aveiro and Duarte Pinto

Knowledge Reuse in Innovation 444
John Favaro

How to Build Ontologies for Requirements Systems Engineering Projects Aiding the Quality Management Process 457
Anabel Fraga and Juan Llorens

Apogee: Application Ontology Generation with Size Optimization 477
Iaakov Exman and Danil Iskusnov

Knowledge Management and Information Sharing

Knowledge Management Problems at Hospital: An Empirical Study Using the Grounded Theory 495
Helvi Nyerwanire, Erja Mustonen-Ollila, and Antti Valpas

Cooperative Knowledge Representation and Classification for Design Projects 510
Xinghang Dai, Nada Matta, and Guillaume Ducellier

Role-Driven Context-Based Decision Support: Approach, Implementation and Lessons Learned. 525
Alexander Smirnov, Tatiana Levashova, and Nikolay Shilov

Knowledge Capture and Information Sharing for Science and Technology 541
Augusta Maria Paci, Cecilia Bartolucci, Cecilia Lalle, and Francesco Tampieri

Ontology Methodology Building Criteria for Crowdsourcing Innovation Intermediaries 556
C ndida Silva and Isabel Ramos

“Made *with* Knowledge”: Reporting a Qualitative Literature Review
on the Concept of the IT Knowledge Artifact 571
Federico Cabitza and Angela Locoro

An Information Flow Based Modeling Approach to Information
Management. 586
*Carlos Alberto Malcher Bastos, Monica Rodrigues Moreira,
Ana Cristina Martins Bruno, Sergio Mecena Filho,
and José Rodrigues de Farias Filho*

Elucidating and Creating Working Knowledge for the Care of the Frail
Elderly Through User-Centered Technology Evaluation of a 4-Wheel
Electric Power Assisted Bicycle: A Case Study of a Salutogenic Device
in Healthcare Facilities in Japan 605
*Miki Saijo, Makiko Watanabe, Sanae Aoshima, Norihiro Oda,
Satoshi Matsumoto, and Shishin Kawamoto*

Author Index 621



<http://www.springer.com/978-3-319-25839-3>

Knowledge Discovery, Knowledge Engineering and
Knowledge Management
6th International Joint Conference, IC3K 2014, Rome,
Italy, October 21-24, 2014, Revised Selected Papers
Fred, A.; Dietz, J.L.G.; Aveiro, D.; Liu, K.; Filipe, J. (Eds.)
2015, XX, 622 p. 174 illus. in color., Softcover
ISBN: 978-3-319-25839-3