

Contents

Invited Papers

- Enterprise Ontology and DEMO Benefits, Core Concepts and a Case Study . . . 3
David Aveiro
- Mastering Data-Intensive Collaboration and Decision Making:
The Dicode Project 21
Nikos Karacapilidis

Knowledge Discovery and Information Retrieval

- Integration of Text Mining Taxonomies 39
Katja Pfeifer and Eric Peukert
- A Multi-dimensional Model for Computer-Aided Measuring
Planning (CAMP) in Digital Manufacturing 56
Xiaoqing Tang and Zhehan Chen
- The Application of Support Vector Machine and Behavior Knowledge Space
in the Disulfide Connectivity Prediction Problem 66
Hong-Yu Chen, Kuo-Tsung Tseng, Chang-Biau Yang, and Chiou-Yi Hor
- Two-Tier Machine Learning Using Conditional Random Fields
with Constraints 80
Sebastian Lindner
- Keyword Extraction from Company Websites for the Development
of Regional Knowledge Maps. 96
Christian Wartena and Montserrat Garcia-Alsina

Knowledge Engineering and Ontology Development

- Pitfalls in Ontologies and TIPS to Prevent Them. 115
*C. Maria Keet, Mari Carmen Suárez-Figueroa,
and María Poveda-Villalón*
- Foundational Ontology Mediation in ROMULUS 132
Zubeida C. Khan and C. Maria Keet
- PRONTOE: An Ontology Editor for Domain Experts 153
*Scott Bell, Pete Bonasso, Mark Boddy, David Kortenkamp,
and Debra Schreckenghost*

Methodology to Develop Ontological Building Information Model for Energy Management System in Building Operational Phase	168
<i>Hendro Wicaksono, Preslava Dobрева, Polina Häfner, and Sven Rogalski</i>	
Combining Ontological and Qualitative Spatial Reasoning: Application to Urban Images Interpretation	182
<i>François de Bertrand de Beuvron, Stella Marc-Zwecker, Cecilia Zanni-Merk, and Florence Le Ber</i>	
Design Patterns for Description-Logic Programs	199
<i>L. Cruz-Filipe, G. Gaspar, and I. Nunes</i>	
Integration of and a Solution for Proof Problems and Query-Answering Problems	215
<i>Kiyoshi Akama and Ekawit Nantajeewarawat</i>	
The Web Knowledge Management: A Taxonomy-Based Approach	230
<i>Filippo Eros Pani, Maria Ilaria Lunesu, Giulio Concas, and Gavina Baralla</i>	
Chunking Complexity Measurement for Requirements Quality Knowledge Representation	245
<i>David C. Rine and Anabel Fraga</i>	
KODEGEN: A Code Generation and Testing Tool Using Runnable Knowledge	260
<i>Jaakov Exman, Anton Litovka, and Reuven Yagel</i>	
Using Context for Search, Browse and Recommendation in Software Development	276
<i>Paulo Gomes, Bruno Antunes, and Bárbara Furtado</i>	
Knowledge Management and Information Sharing	
ESA Knowledge Management Agenda.	293
<i>Roberta Mugellesi Dow, Damiano Guerrucci, Raul Cano Argamasilla, Diogo Bernardino, and Siegmар Pallaschke</i>	
Multilevel Self-organization in Smart Environment: Approach and Major Technologies.	311
<i>Alexander Smirnov, Nikolay Shilov, and Alexey Kashevnik</i>	
Mitigating Barriers to Healthcare Knowledge Sharing in the Collaboration of Traditional and Western Practitioners in Chinese Hospitals.	326
<i>Lihong Zhou and Miguel Baptista Nunes</i>	

A Risk Diagnosing Methodology Web-Based Platform for Micro, Small and Medium Businesses: Remarks and Enhancements 340
Luís Pereira, Alexandra Tenera, João Bispo, and João Wemans

Elucidating Multi-disciplinary and Inter-agency Collaboration Process for Coordinated Elderly Care: A Case Study of a Japanese Care Access Center 357
Miki Saijo, Tsutomu Suzuki, Makiko Watanabe, and Shishin Kawamoto

Semiotics in Interoperation for Information Systems Working Collaboratively 370
Weizi Li, Kecheng Liu, and Shixiong Liu

Challenges to Construct Regional Knowledge Maps for Territories’ Sustainable Development 387
Montserrat Garcia-Alsina, Christian Wartena, and Sönke Lieberam-Schmidt

Exposition of Internal Factors Enhancing Creativity and Knowledge Creation 400
Lina Girdauskiene and Asta Savaneviciene

Cloud Security Assessment: Practical Method for Organization’s Assets Migration to the Cloud 411
Ronivon Costa and Carlos Serrão

Author Index 425



<http://www.springer.com/978-3-662-46548-6>

Knowledge Discovery, Knowledge Engineering and
Knowledge Management
5th International Joint Conference, IC3K 2013,
Vilamoura, Portugal, September 19-22, 2013. Revised
Selected Papers
Fred, A.; Dietz, J.L.G.; Liu, K.; Filipe, J. (Eds.)
2015, XVII, 425 p. 150 illus., Softcover
ISBN: 978-3-662-46548-6