

# Table of Contents

Models in Knowledge Management .....	1
<i>John Mylopoulos</i>	
Two Applications of Computer-Aided Theorem Discovery and Verification .....	2
<i>Fangzhen Lin</i>	
Knowware: The Third Star after Hardware and Software .....	3
<i>David Bell, Ying Jiang, Ruqian Lu, Kaile Su, and Songmao Zhang</i>	
Required Knowledge for Delivering Services .....	4
<i>Brian Donnellan, Diem Ho, John Mylopoulos, Stefan Schambrohn, and Hans-Georg Fill</i>	
Mapping Relational Databases to the Semantic Web with Original Meaning .....	5
<i>Dmitry V. Levshin</i>	
Computing Knowledge-Based Semantic Similarity from the Web: An Application to the Biomedical Domain .....	17
<i>David Sánchez, Montserrat Batet, and Aida Valls</i>	
An Anytime Algorithm for Computing Inconsistency Measurement .....	29
<i>Yue Ma, Guilin Qi, Guohui Xiao, Pascal Hitzler, and Zuoquan Lin</i>	
Forwarding Credible Information in Multi-agent Systems .....	41
<i>Patrick Krümpelmann, Luciano H. Tamargo, Alejandro J. García, and Marcelo A. Falappa</i>	
Convergence Analysis of Affinity Propagation .....	54
<i>Jian Yu and Caiyan Jia</i>	
Propagation of Random Perturbations under Fuzzy Algebraic Operators .....	66
<i>Zheng Zheng, Shanjie Wu, and Kai-Yuan Cai</i>	
Two Approaches to Iterated Belief Contraction .....	78
<i>Raghav Ramachandran, Abhaya C. Nayak, and Mehmet A. Orgun</i>	
The Dual Spatial Connectives of Separation Logic .....	90
<i>Yuming Shen, Yuefei Sui, and Ju Wang</i>	
Knowledge Engineering in Future Internet .....	100
<i>Vedran Hrgovic, Wilfrid Utz, and Robert Woitsch</i>	

Developing Diagnostic DSSs Based on a Novel Data Collection Methodology .....	110
<i>Kaya Kuru, Sertan Girgin, Kemal Arda, Uğur Bozlar, and VeySEL Akgün</i>	
Data Integration for Business Analytics: A Conceptual Approach .....	122
<i>Wilfried Grossmann</i>	
New Labeling Strategy for Semi-supervised Document Categorization...	134
<i>Yan Zhu, Liping Jing, and Jian Yu</i>	
A Competitive Learning Approach to Instance Selection for Support Vector Machines .....	146
<i>Mario Zechner and Michael Granitzer</i>	
Knowledge Discovery from Academic Search Engine .....	158
<i>Ye Wang, Miao Jiang, Xiaoling Wang, and Aoying Zhou</i>	
Interactive Visualization in Knowledge Discovery for Academic Evaluation and Accreditation .....	168
<i>Anastasios Tsolakidis, Ioannis Chalaris, and George Miaoulis</i>	
Aggregation Models for People Finding in Enterprise Corpora .....	180
<i>Wei Zhang, Lei Chang, Jianqing Ma, and Yiping Zhong</i>	
Debt Detection in Social Security by Adaptive Sequence Classification .....	192
<i>Shanshan Wu, Yanchang Zhao, Huaifeng Zhang, Chengqi Zhang, Longbing Cao, and Hans Bohlscheid</i>	
Ontology Based Opinion Mining for Movie Reviews .....	204
<i>Lili Zhao and Chunping Li</i>	
Concept-Based, Personalized Web Information Gathering: A Survey ....	215
<i>Xiaohui Tao and Yuefeng Li</i>	
The Online Market Observatory: A Domain Model Approach .....	229
<i>Norbert Walchhofer, Milan Hronsky, and Karl Anton Froeschl</i>	
Data Driven Rank Ordering and Its Application to Financial Portfolio Construction .....	241
<i>Maria Dobrška, Hui Wang, and William Blackburn</i>	
Prioritizing Non-functional Concerns in MAMIE Methodology .....	253
<i>Hakim Bendjenna, Mohamed Amroune, Nacer-eddine Zarour, and Pierre-jean Charrel</i>	
Verifying Software Requirements Based on Answer Set Programming ...	263
<i>Kedian Mu, Qi Zhang, and Zhi Jin</i>	

Blending the Sketched Use Case Scenario with License Agreements Using Semantics .....	275
<i>Muhammad Asfand-e-yar, Amin Anjomshoaa, Edgar R. Weippl, and A Min Tjoa</i>	
A Comparative Analysis for Detecting Seismic Anomalies in Data Sequences of Outgoing Longwave Radiation .....	285
<i>Yaxin Bi, Shengli Wu, Pan Xiong, and Xuhui Shen</i>	
On Optimization of Predictions in Ontology-Driven Situation Awareness .....	297
<i>Norbert Baumgartner, Wolfgang Gottesheim, Stefan Mitsch, Werner Retschitzegger, and Wieland Schwinger</i>	
On Undecidability of Cyclic Scheduling Problems .....	310
<i>Grzegorz Bocewicz, Robert Wójcik, and Zbigniew Banaszak</i>	
Combination of Two KM Strategies by Web 2.0 .....	322
<i>Quoc Trung Pham and Yoshinori Hara</i>	
Measuring KM Success and KM Service Quality with KnowMetrix – First Experiences from a Case Study in a Software Company .....	335
<i>Franz Lehner</i>	
Knowledge Creation Spaces: The Power of Project Teams .....	347
<i>Andrew J. Sense</i>	
Competence Management in Knowledge-Based Organisation: Case Study Based on Higher Education Organisation .....	358
<i>Przemysław Różewski and Bartłomiej Małachowski</i>	
Knowledge Maturing Services: Supporting Knowledge Maturing in Organisational Environments .....	370
<i>Karin Schoefegger, Nicolas Weber, Stefanie Lindstaedt, and Tobias Ley</i>	
How Much Well Does Organizational Knowledge Transfer Work with Domain and Rule Ontologies? .....	382
<i>Keido Kobayashi, Akiko Yoshioka, Masao Okabe, Masahiko Yanagisawa, Hiroshi Yamazaki, and Takahira Yamaguchi</i>	
Ontology Evaluation through Assessment of Inferred Statements: Study of a Prototypical Implementation of an Ontology Questionnaire for OWL DL Ontologies .....	394
<i>Viktoria Pammer and Stefanie Lindstaedt</i>	
Knowledge-Based Process Modelling for Nuclear Inspection .....	406
<i>Florin Abazi and Alexander Bergmayr</i>	

Two Dependency Modeling Approaches for Business Process  
Adaptation..... 418  
    *Christian Sell, Matthias Winkler, Thomas Springer, and  
    Alexander Schill*

The IT-Socket: Model-Based Business and IT Alignment..... 430  
    *Robert Woitsch and Wilfrid Utz*

Identifying and Supporting Collaborative Architectures ..... 442  
    *I.T. Hawryszkiewicz*

An Examination of Talent Management Concepts in Knowledge  
Intensive Settings ..... 450  
    *Eoin Whelan, David Collings, and Brian Donnellan*

A ‘Soft’ Approach to TLM Requirements Capture to Support  
Through-Life Management ..... 458  
    *Huseyin Dogan, Michael Henshaw, and Esmond Urwin*

**Author Index**..... 471