## Table of Contents - Part II

Retrieval	
Autonomous and Adaptive Identification of Topics in Unstructured Text	1
Louis Massey	
Outlier-Based Approaches for Intrinsic and External Plagiarism Detection	11
Gabriel Oberreuter, Gaston L'Huillier, Sebastián A. Ríos, and Juan D. Velásquez	
An Extended Method for Finding Related Web Pages with Focused Crawling Techniques	21
Kazutaka Furuse, Hiroaki Ohmura, Hanxiong Chen, and Hiroyuki Kitagawa	21
Development of Multilingual Interview-Sheet Composition System to Support Multilingual Communication in Medical Field	31
User Modeling-Based Spatial Web Personalization	41
Context-Aware Website Personalization	51
Node-First Causal Network Extraction for Trend Analysis Based on	
Web Mining	63
Consumer Behavior Analysis from Buzz Marketing Sites over Time Series Concept Graphs	73
Fuzzy Image Labeling by Partially Supervised Shape Clustering  G. Castellano, A.M. Fanelli, and M.A. Torsello	84
Intelligent Tutoring Systems and E-Learning Environments	
Intelligent E-Learning System for Training Power Systems Operators Liliana Araotte, Yasmin Hernandez, and G. Arroyo-Figueroa	94



Interaction Based on Contribution Awareness in Collaborative  Learning	104
Yuki Hayashi, Tomoko Kojiri, and Toyohide Watanabe	
The MATHESIS Semantic Authoring Framework: Ontology-Driven Knowledge Engineering for ITS Authoring	114
An Intelligent Tutoring System Architecture for Competency-Based  Learning	124
A Majority Density Approach for Developing Testing and Diagnostic Systems	134
Exploiting Learners' Tendencies for Detecting English Determiner  Errors	144
Analysis of Students' Learning Activities through Quantifying Time-Series Comments	154
Back-Review Support Method for Presentation Rehearsal Support System	165
Other / Misc. Intelligent Systems Topics	
Multiple Hypothesis Testing and Quasi Essential Graph for Comparing Two Sets of Bayesian Networks	176
Financial Performance Analysis of European Banks Using a Fuzzified Self-Organizing Map  Peter Sarlin and Tomas Eklund	186
Self-Organizing Map in Process Visualization	196
Kalman Filter vs. Particle Filter in Improving K-NN Indoor Positioning	203
On Possibility of Conditional Invariant Detection	214

Table of Contents – Part II	XIX
On Temporal Gödel-Gentzen Translation	225
A Decidable First-Order Logic for Medical Reasoning	235
Interpolation Theorems for Some Extended Description Logics Norihiro Kamide	246
Investigating Attachment Behavior of Nodes during Evolution of a Complex Social Network: A Case of a Scientific Collaboration Network	256
Activity Recognition in Healthcare Monitoring Systems Using Wireless Sensor Networks	265
Defining Events as a Foundation of an Event Notification Middleware for the Cloud Ecosystem	275
Effective Content-Based Music Retrieval with Pattern-Based Relevance Feedback	285
Meta-context: Putting Context-Awareness into Context	296
Negotiation in Electronic Commerce: A Study in the Latin-American  Market	306
Adjusted Case-Based Software Effort Estimation Using Bees Optimization Algorithm	315
A New Honeybee Optimization for Constraint Reasoning: Case of Max-CSPs  Ines Methlouthi and Sadok Bouamama	325
Hybrid Virtual Sensor Based on RBFN or SVR Compared for an Embedded Application	335
Skyline Adaptive Fuzzy Query	345

Improved Travel Time Prediction Algorithms for Intelligent Transportation Systems	355
Methods and Techniques of Artificial and Computational Intelligence in Economics, Finance and Decision Making	
An Effective Utilization of Many Neural Networks for Improving the Traditional Technical Analysis in the Stock Market	366
A New Framework for Assets Selection Based on Dimensions Reduction Techniques	372
Forecasting Stock Price Based on Fuzzy Time-Series with Entropy-Based Discretization Partitioning	382
On the Use of Feed-Forward Neural Networks to Discriminate between Models in Financial and Insurance Risk Frameworks	392
Workshop on Seamless Integration of Semantic Technologies in Computer-Supported Office Work (SISTCOW)	
Interaction Data Management	402
SWord: Semantic Annotations Revisited	410
Using Suffix Arrays for Efficiently Recognition of Named Entities in Large Scale	420
Extracting Personal Concepts from Users' Emails to Initialize Their Personal Information Models	430

OLAP over Continuous Domains via Density-Based Hierarchical	EEO
Clustering	559
Non-separable Transforms for Clustering Trajectories	571
Recent Trends in Knowledge Engineering, Smart Systems, and Their Applications	
Knowledge Discovery about Web Performance with Geostatistical Turning Bands Method	581
Context Change Detection for Resource Allocation in Service-Oriented Systems	591
A Multi-Agent Approach for Engineering Design Knowledge  Modelling	601
An Architecture for the Semantic Enhancement of Clinical Decision  Support Systems	611
An Approach to Measure Quality of Knowledge in the e-Decisional Community	621
Application of Decisional DNA in Web Data Mining  Peng Wang, Cesar Sanín, and Edward Szczerbicki	631
A Concept for Comprehensive Knowledge Management System  Bartosz Kucharski and Edward Szczerbicki	640
The Role and Concept of Sub-models in the Smart Fuzzy Model of the Internet Mortgage Market	650
Knowledge Management Challenges in Collaborative Design of a Virtual Call Centre	657

Table of Contents – Part II X	XIII
Decisional DNA Applied to Digital TV	667
Measurement of the Development of a Learning IT Organization Supported by a Model of Knowledge Acquisition and Processing	677
Prediction Based Handovers for Wireless Networks Resources  Management	687
Author Index	697