

Table of Contents – Part II

Evaluating Sentiment in Annual Reports for Financial Distress Prediction Using Neural Networks and Support Vector Machines	1
<i>Petr Hájek and Vladimír Olej</i>	
Identification of All Exact and Approximate Inverted Repeats in Regular and Weighted Sequences	11
<i>Carl Barton, Costas S. Iliopoulos, Nicola Mulder, and Bruce Watson</i>	
Query Expansion with a Little Help from Twitter	20
<i>Ioannis Anagnostopoulos, Gerasimos Razis, Phivos Mylonas, and Christos-Nikolaos Anagnostopoulos</i>	
Recognizing Emotion Presence in Natural Language Sentences	30
<i>Isidoros Perikos and Ioannis Hatzilygeroudis</i>	
Classification of Event Related Potentials of Error-Related Observations Using Support Vector Machines	40
<i>Pantelis Asvestas, Errikos M. Ventouras, Irene Karanasiou, and George K. Matsopoulos</i>	
A Novel Hierarchical Approach to Ranking-Based Collaborative Filtering	50
<i>Athanasios N. Nikolakopoulos, Marianna Kouneli, and John Garofalakis</i>	
Mimicking Real Users' Interactions on Web Videos through a Controlled Experiment	60
<i>Antonia Spiridonidou, Ioannis Karydis, and Markos Avlonitis</i>	
Mining Student Learning Behavior and Self-assessment for Adaptive Learning Management System	70
<i>Konstantina Moutafi, Paraskevi Vergeti, Christos Alexakos, Christos Dimitrakopoulos, Konstantinos Giotopoulos, Hera Antonopoulou, and Spiros Likothanassis</i>	
Exploiting Fuzzy Expert Systems in Cardiology	80
<i>Efrosini Sourla, Vasileios Syrimpeis, Konstantina-Maria Stamatopoulou, Georgios Merekoulias, Athanasios Tsakalidis, and Giannis Tzimas</i>	

The Strength of Negative Opinions	90
<i>Thanos Papaoikonomou, Mania Kardara,</i> <i>Konstantinos Tserpes, and Theodora Varvarigou</i>	
Extracting Knowledge from Web Search Engine Using Wikipedia	100
<i>Andreas Kanavos, Christos Makris, Yannis Plegas, and</i> <i>Evangelos Theodoridis</i>	
AppendicitisScan Tool: A New Tool for the Efficient Classification of Childhood Abdominal Pain Clinical Cases Using Machine Learning Tools	110
<i>Athanasios Mitroulias, Theofilatos Konstantinos,</i> <i>Spiros Likothanassis, and Mavroudi Seferina</i>	
Mining the Conceptual Model of Open Source CMS Using a Reverse Engineering Approach	119
<i>Vassiliki Gkantouna, Spyros Sioutas, Georgia Sourla,</i> <i>Athanasios Tsakalidis, and Giannis Tzimas</i>	
Representation of Possessive Pronouns in Universal Networking Language	129
<i>Velislava Stoykova</i>	
Sleep Spindle Detection in EEG Signals Combining HMMs and SVMs	138
<i>Iosif Mporas, Panagiotis Korvesis, Evangelia I. Zacharaki, and</i> <i>Vasilis Megalooikonomou</i>	
Classifying Ductal Trees Using Geometrical Features and Ensemble Learning Techniques	146
<i>Angeliki Skoura, Tatyana Nuzhnaya, Predrag R. Bakic, and</i> <i>Vasilis Megalooikonomou</i>	
Medical Decision Making via Artificial Neural Networks: A Smart Phone-Embedded Application Addressing Pulmonary Diseases’ Diagnosis	156
<i>George-Peter K. Economou and Vaios Papaioannou</i>	
A Simulator for Privacy Preserving Record Linkage	164
<i>Alexandros Karakasidis and Vassilios S. Verykios</i>	
Development of a Clinical Decision Support System Using AI, Medical Data Mining and Web Applications	174
<i>Dimitrios Tsolis, Kallirroï Paschali, Anna Tsakona,</i> <i>Zafeiria-Marina Ioannou, Spiros Likothanassis,</i> <i>Athanasios Tsakalidis, Theodore Alexandrides, and</i> <i>Athanasios Tsamandas</i>	

Supporting and Consulting Infrastructure for Educators during Distance Learning Process: The Case of Russian Verbs of Motion	185
<i>Oksana Kalita, Alexander Gartsov, Georgios Pavlidis, and Photis Nanopoulos</i>	
Classification Models for Alzheimer's Disease Detection	193
<i>Christos-Nikolaos Anagnostopoulos, Ioannis Giannoukos, Christian Spenger, Andrew Simmons, Patrizia Mecocci, Hikka Soininen, Iwona Kloszewska, Bruno Vellas, Simon Lovestone, and Magda Tsolaki</i>	
Combined Classification of Risk Factors for Appendicitis Prediction in Childhood	203
<i>Theodoros Iliou, Christos-Nikolaos Anagnostopoulos, Ioannis M. Stephanakis, and George Anastassopoulos</i>	
Analysis of DNA Barcode Sequences Using Neural Gas and Spectral Representation	212
<i>Antonino Fiannaca, Massimo La Rosa, Riccardo Rizzo, and Alfonso Urso</i>	
A Genetic Algorithm for Pancreatic Cancer Diagnosis	222
<i>Charalampos Moschopoulos, Dusan Popovic, Alejandro Sifrim, Grigorios Beligiannis, Bart De Moor, and Yves Moreau</i>	
Enhanced Weighted Restricted Neighborhood Search Clustering: A Novel Algorithm for Detecting Human Protein Complexes from Weighted Protein-Protein Interaction Graphs	231
<i>Christos Dimitrakopoulos, Konstantinos Theofilatos, Andreas Pegkas, Spiros Likothanassis, and Seferina Mavroudi</i>	
A Hybrid Approach to Feature Ranking for Microarray Data Classification	241
<i>Dusan Popovic, Alejandro Sifrim, Charalampos Moschopoulos, Yves Moreau, and Bart De Moor</i>	
Derivation of Cancer Related Biomarkers from DNA Methylation Data from an Epidemiological Cohort	249
<i>Ioannis Valavanis, Emmanouil G. Sifakis, Panagiotis Georgiadis, Soterios Kyrtopoulos, and Aristotelis A. Chatziioannou</i>	
A Particle Swarm Optimization (PSO) Model for Scheduling Nonlinear Multimedia Services in Multicommodity Fat-Tree Cloud Networks	257
<i>Ioannis M. Stephanakis, Ioannis P. Chochliouros, George Caridakis, and Stefanos Kollias</i>	

Intelligent and Adaptive Pervasive Future Internet: Smart Cities for the Citizens	269
<i>George Caridakis, Georgios Siolas, Phivos Mylonas, Stefanos Kollias, and Andreas Stafylopatis</i>	
Creative Rings for Smart Cities	282
<i>Simon Delaere, Pieter Ballon, Peter Mechant, Giorgio Parladori, Dirk Osstyn, Merce Lopez, Fabio Antonelli, Sven Maltha, Makis Stamatelatos, Ana Garcia, and Artur Serra</i>	
Energy Efficient E-Band Transceiver for Future Networking	292
<i>Evangelia M. Georgiadou, Mario Giovanni Frecassetti, Ioannis P. Chochliouros, Evangelos Sfakianakis, and Ioannis M. Stephanakis</i>	
Social and Smart: Towards an Instance of Subconscious Social Intelligence.....	302
<i>M. Graña, B. Apolloni, M. Fiasché, G. Galliani, C. Zizzo, G. Caridakis, G. Siolas, S. Kollias, F. Barrientos, and S. San Jose</i>	
Living Labs in Smart Cities as Critical Enablers for Making Real the Modern Future Internet.....	312
<i>Ioannis P. Chochliouros, Anastasia S. Spiliopoulou, Evangelos Sfakianakis, Evangelia M. Georgiadou, and Eleni Rethimiotaki</i>	
Author Index	323