

CONTENTS

INVITED LECTURES

D. INKPEN, <i>Semantic Similarity Knowledge and its Applications</i>	9
A. LECOMTE, <i>Some Representation Structures for Computational Linguistics</i> ..	11
R. MIHALCEA, <i>Using Wikipedia for Automatic Word Sense Disambiguation</i> ..	12
C. ORĂȘAN, <i>The Role of Linguistic Information for Shallow Language Processing</i>	14

NATURAL LANGUAGE PROCESSING

C. ORĂȘAN, <i>The Role of Linguistic Information for Shallow Language Processing</i>	17
M. LINTEAN, V. RUS, <i>Large Scale Experiments with Function Tagging</i>	25
D. TĂȚAR, G. ȘERBAN, M. LUPEA, <i>Text Entailment Verification with Text Similarities</i>	33
D. TĂȚAR, G. ȘERBAN, A. MIHIȘ, M. LUPEA, D. LUPȘA, M. FRENȚIU, A Chain Dictionary Method for Word Sense Disambiguation and Applications ..	41
A. ONETȚ, <i>Syntagma Processing for Incomplete Answers</i>	50
D. LUPȘA, A. TARȚA, <i>A Text Analysis Based Approach for the Compliance Between the Specification and the Software Product</i>	58
Z. BODÓ, Z. MINIER, L. CSATÓ, <i>Text Categorization Experiments using Wikipedia</i>	66
E. TĂMĂIANU-MORITA, C. VÎLCU, M. CIUBĂNCAN, <i>The ‘Integral’ Model of Language Functioning (E. Coșeriu)</i>	73
L. HANCU, <i>Enhancing the Invisible Web</i>	81
A. D. MIHIȘ, <i>Chain Algorithm used for Part of Speech Recognition</i>	89
C. I. DUDUIALĂ, <i>Natural Language Generation: Applications for Romanian Language</i>	96

ARTIFICIAL INTELLIGENCE

F. GORUNESCU, M. GORUNESCU, K. REVETT, M. ENE, <i>A Hybrid Incremental/Monte Carlo Searching Technique for the “Smoothing” Parameter of Probabilistic Neural Networks</i>	107
D. ZAHARIE, F. ZAMFIRACHE, V. NEGRU, D. PP, H. POPA, <i>A Comparison of Quality Criteria for Unsupervised Clustering of Documents Based on Differential Evolution</i>	114
S. R. POP, C. I. DUDUIALĂ, C. CHIRA, <i>Simulating Microcapillary Networks Using Random Graphs</i>	122

K. REVETT, F. GORUNESCU, M. GORUNESCU, <i>Mining an Animal Toxin Database: Characterizing Protein Folds</i>	130
A. GOG, D. DUMITRESCU, <i>Collaborative Selection for Evolutionary Algorithms</i>	138
D. DUMITRESCU, K. SIMON, E. VIG, <i>Genetic Chromodynamics. Data Mining and Training Applications</i>	145
D. DUMITRESCU, C. STOEAN, R. STOEAN, <i>Genetic Chromodynamics for the Job Shop Scheduling Problem</i>	153
D. ICLĂNZAN, D. DUMITRESCU, <i>Exact Model Building in Hierarchical Complex Systems</i>	161
O. MUNTEAN, <i>Genetic Programming with Histograms for Handwritten Recognition</i>	169
C. CHIRA, D. DUMITRESCU, R. GĂCEANU, <i>Stigmergic Agent Systems for Solving NP-hard Problems</i>	177
C. CHIRA, C. M. PINTEA, D. DUMITRESCU, <i>Sensitive Ant Systems in Combinatorial Optimization</i>	185
O. MUNTEAN, <i>An Evolutionary Approach for the 3D Packing Problem</i>	193
C. CHIRA, <i>Multi-Agent Distributed Computing</i>	201
R. LUNG, D. DUMITRESCU, <i>An Evolutionary Model for Solving Multiplayer Noncooperative Games</i>	209

SOFTWARE ENGINEERING

H. F. POP, M. FRENȚIU, <i>On Software Attributes Relationship Using a New Fuzzy C-Bipartitioning Method</i>	219
F. BOIAN, D. BUFNEA, ET.AL., <i>Some Formal Approaches for Dynamic Life Session Management</i>	227
L. ȚÂMBULEA, H. F. POP, <i>Management of Web Pages Using XML Documents</i>	236
D. TUDOR, V. CREȚU, H. CIOCÂRLIE, <i>A View on Fault Tolerant Techniques Applied for Mediogrid</i>	244
G. ȘERBAN, G. S. COJOCAR, <i>A New Graph-Based Approach in Aspect Mining</i>	252
V. NICULESCU, <i>Introducing Data-Distributions into PowerList Theory</i>	261
S. CATARANCIUC, <i>The Stable Sets of a G-complex of Multi-ary Relations and its Applications</i>	269
A. CICORTAȘ, V. IORDAN, <i>Multi-Agent System for Competence Modeling</i> ..	274
M. BALTA, <i>Data Verification in ETL Processes</i>	282
C. ENĂCHESCU, <i>Data Predictions using Neural Networks</i>	290
A. STERCA, C. COBÂRZAN, F. BOIAN, D. BUFNEA, <i>Evaluating Dynamic Client-Driven Adaptation Decision Support in Multimedia Proxy-Caches</i>	298

J. ROBU, <i>Automated Proof of Geometry Theorems Involving Order Relation in the Frame of the Theorema Project</i>	307
I. G. CZIBULA, G. ȘERBAN, <i>A Hierarchical Clustering Algorithm for Software Design Improvement</i>	316
C. ȘERBAN, A. VESCAN, <i>Metrics-Based Selection of a Component Assembly</i>	324
D. PETRAȘCU, V. PETRAȘCU, <i>Architecting and Specifying a Software Component using UML</i>	332
E. SCHEIBER, <i>A TSpaces Based Framework for Parallel-Distributed Applications</i>	341
N. MAGARIU, <i>Applying Transition Diagram Systems in Development of Information Systems Dynamic Projects</i>	346