PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE

Volume II

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Foreword

It gives us great pleasure to introduce this collection of papers to be presented at the 2015 International Conference on Artificial Intelligence (ICAI'15), July 27-30, 2015, at Monte Carlo Resort, Las Vegas, USA.

An important mission of the World Congress in Computer Science, Computer Engineering, and Applied Computing (a federated congress to which this conference is affiliated with) includes "Providing a unique platform for a diverse community of constituents composed of scholars, researchers, developers, educators, and practitioners. The Congress makes concerted effort to reach out to participants affiliated with diverse entities (such as: universities, institutions, corporations, government agencies, and research centers/labs) from all over the world. The congress also attempts to connect participants from institutions that have teaching as their main mission with those who are affiliated with institutions that have research as their main mission. The congress uses a quota system to achieve its institution and geography diversity objectives." By any definition of diversity, this congress is among the most diverse scientific meeting in USA. We are proud to report that this federated congress has authors and participants from 76 different nations representing variety of personal and scientific experiences that arise from differences in culture and values. As can be seen (see below), the program committee of this conference as well as the program committee of all other tracks of the federated congress are as diverse as its authors and participants.

The program committee would like to thank all those who submitted papers for consideration. About 58% of the submissions were from outside the United States. Each submitted paper was peer-reviewed by two experts in the field for originality, significance, clarity, impact, and soundness. In cases of contradictory recommendations, a member of the conference program committee was charged to make the final decision; often, this involved seeking help from additional referees. In addition, papers whose authors included a member of the conference program committee were evaluated using the double-blinded review process. One exception to the above evaluation process was for papers that were submitted directly to chairs/organizers of pre-approved sessions/workshops; in these cases, the chairs/organizers were responsible for the evaluation of such submissions. The overall paper acceptance rate for regular papers was 27%; 15% of the remaining papers were accepted as poster papers (at the time of this writing, we had not yet received the acceptance rate for a few individual tracks.)

We are very grateful to the many colleagues who offered their services in organizing the conference. In particular, we would like to thank the members of the Program Committee of ICAI'15, members of the congress Steering Committee, and members of the committees of federated congress tracks that have topics within the scope of ICAI. Many individuals listed below, will be requested after the conference to provide their expertise and services for selecting papers for publication (extended versions) in journal special issues as well as for publication in a set of research books (to be prepared for publishers including: Springer, Elsevier, BMC journals, and others).

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We would like to extend our appreciation to the members of the program committees of individual sessions, tracks, and workshops; their names do not appear in this document; they are listed on the web sites of individual tracks.

As Sponsors-at-large, partners, and/or organizers each of the followings (separated by semicolons) provided help for at least one track of the World Congress: Computer Science Research, Education, and Applications Press (CSREA); US Chapter of World Academy of Science (http://www.world-academy-of-science.org/); American Council on Science & Education & Federated Research Council (http://www.americancse.org/); HoIP, Health Without Boundaries, Healthcare over Internet Protocol, UK

(http://www.hoip.eu); HoIP Telecom, UK (http://www.hoip-telecom.co.uk); and WABT, Human Health Medicine, UNESCO NGOs, Paris, France (http://www.thewabt.com/). In addition, a number of university faculty members and their staff (names appear on the cover of the set of proceedings), several publishers of computer science and computer engineering books and journals, chapters and/or task forces of computer science associations/organizations from 4 countries, and developers of high-performance machines and systems provided significant help in organizing the conference as well as providing some resources. We are grateful to them all.

We express our gratitude to keynote, invited, and individual conference/tracks and tutorial speakers - the list of speakers appears on the conference web site. We would also like to thank the followings: UCMSS (Universal Conference Management Systems & Support, California, USA) for managing all aspects of the conference; Dr. Tim Field of APC for managing and coordinating the printing of the proceedings; and the staff of Monte Carlo Resort (Convention department) in Las Vegas for the professional service they provided. Last but not least, we would like to thank the Co-Editors and Associate Co-Editors of ICAI'15: Prof. Hamid R. Arabnia, Prof. David de la Fuente, Dr. Roger Dziegiel, Prof. George Jandieri, Dr. Elena B. Kozerenko, Dr. Peter M. LaMonica, Dr. Raymond A. Liuzzi, Dr. Jose A. Olivas, Ashu M. G. Solo, Prof. Fernando G. Tinetti, and Dr. Todd Waskiewicz.

We present the proceedings of ICAI'15.

Steering Committee, 2015 http://www.world-academy-of-science.org/

Contents

SESSION: ROBOTICS AND APPLICATIONS

Place Recognition and Topological Map Learning in a Virtual Cognitive Robot	3
Paul Smart, Katia Sycara	
A Novel Offline Path Planning Method	10
Pejman Kamkarian, Henry Hexmoor	
Improve Robots Calibration Accuracy Using A Dynamic Online Interval Type-2 Fuzzy Interpolation System	16
Ying Bai, Dali Wang	
A Dynamic Hierarchical Task Transfer in Multiple Robot Explorations Mehran Asadi, Manfred Huber	22
Inferring Robot Actions from Verbal Commands using Shallow Semantic Parsing Alexander Sutherland, Suna Bensch, Thomas Hellstrom	28
Efficiency Considerations of an Offline Mobile Robot Path Planner Pejman Kamkarian, Henry Hexmoor	35
Architecture for Multi-robot Systems with Emergent Behavior Angel Gil, Jose Aguilar, Rafael Rivas, Eladio Dapena, Kevin Hernandez	41
Singer Module with Singing Synthesis for Humanoid Robots Applications Areli Rojo Hernandez, Hector Manuel Perez Meana, Nagai Takayuki, Enrique Escamilla Hernan Juan Carlos Sanchez Garcia	48 ndez,
PathFinder: An Autonomous Mobile Robot Guided by Computer Vision Andre R. de Geus, Marcelo H. Stoppa, Sergio F. da Silva	55
Determining Humanoid Soccer Player Position based on Goal Detection Victor Lomas-Barrie, Juan Pena-Cabrera, Joel Duran-Ortega	61
SESSION: GENETIC ALGORITHMS + EVOLUTIONARY STRATEGIES A COMPUTATIONS + OPTIMIZATION METHODS	AND
Bound Smoothing with a Biased Random-Key Genetic Algorithm	69
Thiago Alves de Queiroz, Ivan da Silva Sendin, Marcos Aurelio Batista	
Parallelization of the Rosen-Suzuki Fist Function and Himmelblau Function Using a	76
Two-Population Evolutionary Algorithm	
Michael Scherger, Roja Molupoju	

Mining Simultaneously Emerging and Decaying Patterns from Temporal Quantitative Data using Genetic Algorithm	82
Anelisa P. da Silva, Dalton M. Tavares, Marcos Antonio Batista, Sergio F. da Silva	
Two Repair Schemes Applied to a Multiply Constrained Harvest Scheduling Problem	88
Peter Geiger, Walter Potter	
On the Evolutionary Model of Intelligence Igor Weisband	94
Cooperative Games with Monte Carlo Tree Search	99
CheeChian Cheng, Norman Carver	
Solving Unit Commitment Problem Based on New Stochastic Search Algorithm Heidar Ali Shayanfar, Oveis Abedinia, Nima Amjady	105
Improving the Performance of Particle Swarm Optimization for Iris Recognition System Using Independent Component Analysis	111
Omaima N. Ahmad Al-Allaf	
Optimal Design of SVC and Thyristor-Controlled Series Compensation Controller in Power System	118
Oveis Abedinia, Nima Amjady, Heidar Ali Shayanfar	
Analysis of the Performance Improvement Obtained by a Genetic Algorithm-based Approach on a Hand Geometry Dataset	125
Arnaldo G. A. Silva, Igor A. M. Barborsa, Marcia V. P. Nascimento, Thais G. Rego, Leonardo V. Batista	
Reconfiguration of Radial Distribution Networks by Applying a Multi-objective Technique Rafael Tapia-Juarez, Elisa Espinosa.Juarez	131
SESSION: FUZZY LOGIC AND SETS, FUZZY CONTROL AND APPLICATIONS	
Optimizing Cost with Intelligent Energy Management System based on Fuzzy Logic	141
Musbah Abdulgader, Cheng Yang, Devinder Kaur	
Fuzzy Methodologies for Multi-Sensor Information Fusion with Applications to Precision PNT	147
James Crowder, John Carbone	

An Adaptive PID Tuning For LFC System Using Neuro-Fuzzy Inference System	155
Heidar Ali Shayanfar, Ghasem Derakhshan, Mohammadreza Alimohammadi, Amin Khodabakhshid	an
The Logic Fuzzy in the Operation of the Knowledge of the Interaction Human-computer Tasks in Complex Machines: Learning in Significance Sets Edgard Martins, Isnard Martins	161
Identifying Opinion Mining Elements Based on Dependency Relations and Fuzzy Logic Abdelaziz Bouras, Haiqing Zhang, Aicha Sekhari, Yacine Ouzrout	168
Fuzzy Evaluation of Job Satisfaction of Hotel Employees Rahib Abiyev, Gunay Sadikoglu, Esmira Abiyeva	175
SESSION: KNOWLEDGE DISCOVERY AND MACHINE LEARNING Cognitive RF Systems and EM Fratricide - Part III Gerard Capraro	183
Predicting Locations of Interest with Biased Levy Flights Aaron Wheeler	189
Potentially Explaining Literature Based Discoveries in Non-Medical Domains M. Heidi McClure	194
Analyzing Foreign-Language Social-Media Reaction to Televised Speeches: Lessons Learned Brian Amanatullah, Steve Minton, Matthew Michelson, Greg Barish, Kane See	201
Distributed Dynamic Graph Analytic Framework: Scalable Layered Multi-Modal Network Analysis Michael Margitus, William Tagliaferri	206
Determining Formal and Informal Organizational Hierarchy Joanna Brown, Elizabeth Benagh, Connie Fournelle	212
SESSION: KNOWLEDGE BASE SYSTEMS, REPRESENTATION, DISCOVE + INFORMATION ENGINEERING METHODS AND RELATED ISSUES Using Multiple Methods to Infer Classification with An Incrementally Expanding Knowledge Base	
Kam-Hoi Cheng Moving Towards an Adaptive Enterprise Intrusion Detection and Prevention System	228
Thomas Cole Amick, Lem R. Soles, Dallas H. Snider	

Controlled Information Maximization for SOM Knowledge Induced Learning Ryotaro Kamimura	232
The Role of Planning in Object-Oriented Programming for Beginners Christina Schweikert	239
Epistemology Under Schematization: Defining Knowledge Sabah Al-Fedaghi	246
Automated Monitoring and Validation of Synthetic Intelligent Behavior Randolph Jones, Ben Bachelor, Webb Stacy, John Colonna-Romano, Robert Wray	252
Classification of Debate Threading Models for Representing Decentralized Debates Abdulrahman Alqahtani, Marius Silaghi	259
Automatic Concept-base Creation Method using Document Groups Misako Imono, Eriko Yoshimura, Seiji Tsuchiya, Hirokazu Watabe	266
Network-based Relevance Relationships Generating for Empirical Engineering Knowledge Xinyu Li, Zuhua Jiang, Bo Song, Lijun Liu	272
SESSION: WORKSHOP - INTELLIGENT LINGUISTIC TECHNOLOGIES, ILINTEC'15	,
Parametrizing Verb Second and Clitic Second Languages Anton Zimmerling	281
Method for Generating Subject Area Associative Portraits: Different Examples Irina Galina, Michael Charnine, Nikolay Somin, Vladimir Nikolaev, Yulia Morozova, Oleg Zolotare	288 ev
Business Intelligence Processing on the Base of Unstructured Information Analysis from Different Sources Including Mass Media and Internet Oleg Zolotarev, Michael Charnine, Andrey Matskevich, Konstantin Kuznetsov	295
Evaluation for Morphologically Rich Language: Russian NLP Svetlana Toldova, Olga Lyashevskaya, Anastasiya Bonch-Osmolovskaya, Maxim Ionov	300
SESSION: MACHINE TRANSLATION, NATURAL LANGUAGE PROCESSION AND RELATED METHODS	NG
Information Extraction of ICARTT Data Using Natural Language Processing Elliot Rieflin, Dali Wang, John Kusterer, Gao Chen	309

Evaluation of a Standalone Language-independent Dialogue Framework	316
Arnaud Jordan, Kenji Araki	
Automated Scoring of Levels of Integrative Complexity Using Machine Learning and Natural Language Processing	323
Aardra Kannan Ambili, Khaled Rasheed	
Semantic Characterization of Academic and Occupational Profiles Based on Competencies Alexandra Gonzalez, Jose Aguilar	329
Comparative Study of Verse Similarity for Multi-lingual Representations of the Qur'an Amna Basharat, Delaram Yasdansepas, Khaled Rasheed	336
KNN based Word Categorization considering Feature Similarity Taeho Jo	343
A General Language Framework for General Intelligence Sudharsan Iyengar, Theron Rabe	347
Example Based Machine Translation Using Fuzzy Logic from English to Hindi Manish Rana, Mohammad Atique	354
SESSION: XV TECHNICAL SESSION ON APPLICATIONS OF ADVANCED TECHNIQUES TO INFORMATION MANAGEMENT FOR SOLVING COMPANY-RELATED PROBLEMS	AI
Application of the FTOPSIS Ranking Method to an Industrial Facility Location Problem	363
Javier Puente, Isabel Fernandez, Jesus Lozano, Borja Ponte, Paolo Priore, David de la Fuente	
Heat Exchanger Network (HENET): A Parallel GA/SA Algorithm Alberto Gomez, Daniel Toimil, Rafael Rosillor, Jose Parreno, Nazario Garcia, David de la Fuente	368
A Semantic Repository Approach to Improve Health Information Management Jose Gracia-Maldonado, Francisco P. Romero, Jose A. Olivas	374
A Decision Support System for Risk Analysis and Diagnosis of Hereditary Cancer Cesar Calatrava, Mauro J. Oruezabal, Jose A. Olivas, Francisco P. Romero, Jesus Serrano-Guerra	380 ero
SESSION: POSTER PAPERS	
Plural Object Recognition Using Image Similarity and Word-Concept Association	389
Hirokazu Watabe, Misako Imono, Eriko Yoshimura, Seiji Tsuchiya	

Robust Stability Criteria for Takagi-Sugeno Fuzzy Systems with Sampled-data H.Y. Jung, Yajuan Liu, S.M. Lee	391
Automating Academic Advising and Course Schedule Planning with a CLIPS Expert System Edwin Rudolph, Adel Abunawass	393
A Verification Technique for Self-Adaptive Software by Using Model-CheckingEuijong Euijong Lee, Doo-Kwon Baik	395
Judging Emotion from EEGs Using SVM and EEG Features Seiji Tsuchiya, Mayo Morimoto, Misako Imono, Hirokazu Watabe	397
Learning-Based Adaptation Determination Method for Problem Recognition of Self-Adaptive Software Kwangsoo Seol, Doo-Kwon Baik	399
An Intelligent Robotic System for Localization and Path Planning Using Depth First Search Andrea Doucette, Wei Lu	401
Design and Implementation of a Simulator for the Operational Control of Creative 3D Assembly Sanguk Noh	403
SESSION: ARTIFICIAL INTELLIGENCE: THEORY, ALGORITHMS AND APPLICATIONS + COGNITIVE SCIENCE + MODELING)
Visual Intelligence: Toward Machine Understanding of Video Content Michael Burl, Russell Knight, Anthony Barrett	407
Applications of Mixed Pairwise Comparisons Abeer Mirdad, Ryszard Janicki	414
Artificial Psychology Revisited: Constructs for Modeling Artificial Emotions James Crowder, John Carbone, Shelli Friess	421
Sam and Chinese Room Roseli Gimenes	427
Turing Test Does Not Work in Theory but in Practice Pertti Saariluoma, Matthias Rauterberg	433
High-Density Pattern-Of-Life Modeling Randolph Jones, J. T. Folsom-Kovarik, Pat McLaughlin, Rich Frederiksen	438

Verification of the Position Estimation Method of the Smartphone by Using Visible Light Communication and its Application to Intelligent Lighting System Kohei Yamaguchi, Mitsunori Miki, Sho Kuwajima, Ryohei Jonan, Hiroto Aida	445
An Intelligent System Framework for Measuring Attention Levels of Students in Online Course Environments	452
Omer Useche, Eman El-Sheikh	
Complex DNA and Good Genes for Snakes Md Shahnawaz Khan, Walter Potter	458
Parametric and Nonparametric Mixture Models Based on Interval Regression	464
Roberta Fagundes, Bruno Pimentel, Renata Souza, Francisco Cysneiros	
Conceptual Design of a Smart Classroom Based on Multiagent Systems Jose Aguilar, Priscila Valdiviezo, Jorge Cordero, Manuel Sanchez	471
Approaches and Strategies to Extract Relevant Terms: How Are They Being Applied? Joselaine Valaski, Sheila Reinehr, Andreia Malucelli	478
Construction of the EEG Emotion Judgment System Using Concept Base of EEG Features Mayo Morimoto, Misako Imono, Seiji Tsuchiya, Hirokazu Watabe	485
Investigation of CI Forecasting Algorithms for Short-time Cash Demand in ATM Network Gediminas Zylius, Vygandas Vaitkus, Rimvydas Simutis	491
The DNA of Snakes	497
Md Shahnawaz Khan, Walter Potter	
Reducing the Number of Lighting Control Attempts Before Illuminance Convergence in the Intelligent Lighting System Using the Layout Map of Lightings and Illuminance Sensors Ryohei Jonan, Mitsunori Miki, Shohei Matsushita, Daichi Terai, Hiroto Aida	503
Insects Detection in Maize by Endoscopic Video Analysis	510
Andre R. de Geus, Marcos Antonio Batista, Tercio A. Santos Filho, Sergio F. da Silva	
Optimal PID Controller Design Using Krill Herd Algorithm for Frequency Stabilizing in an Isolated Wind-Diesel System	516
Heidar Ali Shayanfar, Hossein Shayeghi, Abdollah Younesi	
Verification of a Seat Occupancy/Vacancy Detection Method Using High-Resolution Infrared Sensors and the Application to the Intelligent Lighting System	522

Daichi Terai, Mitsunori Miki, Katsuya Ito, Kohei Yamaguchi, Hiroto Aida

Indoor Floor Map Construction with Video Survey	529
Tsz Lung Wong, Kai-sun Wong, Ka Sing Lin, Chin Tau Lea	
An Approach for the Emerging Ontology Alignment based on the Bees Colonies	536
Carlos Rangel, Jose Aguilar, Mariela Cerrada, Junior Altamiranda	
Brain Based Control of Wheelchair	542
Rahib Abiyev, Nurullah Akkaya, Ersin Aytac, Irfan Gunsel, Ahmet Cagman	
eJADE-S: Encrypted JADE-S for Securing Multi-Agent Applications	548
Basit Ali, Umar Manzoor, Bassam Zafar	
Effect of Demand-Side Management in Electricity Price/Load Forecasting in Smart Grids	555
Hossein Shayeghi, Ali Ghasemi, Heidar Ali Shayanfar	
Maximization of the Resource Production in RTS Games using Planning and Scheduling Thiago Naves, Carlos Lopes	562
SESSION: PATTERN RECOGNITION AND SUPPORTING ALGORITHMS MACHINE LEARNING AND APPLICATIONS + LEARNING METHODS (SUPERVISED AND UNSUPERVISED) AND DATA MINING	+
Using Google Glass and Machine Learning to Assist People with Memory Deficiencies	571
Thomas Way, Adam Bemiller, Raghavender Mysari, Corinne Reimers	
A Novel Biologically Plausible Supervised Learning Method for Spiking Neurons	578
Lilin Guo, Zhenzhong Wang, Malek Adjouadi	
Definition and Mining of Quasi-Cyclical Patterns in Agroclimatic Data	585
Geise K. S. Santos, Tercio A. Santos Filho, Marcos Antonio Batista, Sergio F. da Silva	
Interpreting the Geochemistry of Southern California Granitic Rocks using Machine Learning	592
German Alferez, Jocksan Rodriguez, Benjamin Clausen, Lance Pompe	
An Interval Expectation Maximization Algorithm for Outlier Detection in Linear Regression	599
Daniel Bion, Marco Domingues, Renata Souza, Francisco Cysneiros	
Proactive Control of Traffic in Smart Cities	604
Benjamin Zabala, German Alferez	

SentAMaL- A Sentiment Analysis Machine Learning Stock Predictive Model Sherrene Bogle, Walter Potter	610
Supervised Potentiality Actualization Learning for Improving Generalization Performance Ryotaro Kamimura	616
A Cluster-Based Algorithm for Anomaly Detection in Time Series Using Mahalanobis Distance	622
Erick Giovani Sperandio Nascimento, Orivaldo De Lira Tavares, Alberto Ferreira De Souza	
Determining Signal Source Integrity Using a Semi-supervised Pattern Classification System Wendell Satney, Angela Carrington, Thea Scantlebury-Manning, Adrian Als	629
Adaptive WiFi Positioning System with Unsupervised Map Construction	636
Ka Sing Lin, Albert Kai Sun Wong, Tsz Lung Wong, Chin Tau Lea	
A Reconfigurable System Learning for Data Classification Using Parallel Processing Eduardo Moreira, Carlos Maciel, Edmilson Moreira, Felipe Zanoni	643
Synchronous Emotion Pattern Recognition with a Virtual Training Environment Bruno Senzio-Savino, Mohammad Alsharif, Carlos Gutierrez, Katsumi Yamashita	650
Automatic Recognition of Speech Patterns of Numeric Digits Using Support Vector Machines: A New Approach	655
Gracieth Batista, Washington Silva	
Case Base Size and Overall Competence: Incremental Increase and Similarity Threshold Selection on a Data Set	661
Spencer Knight, John Hastings	
Support Vector Machines and Mel-Frequency Cepstral Coefficients: an Application for Automatic Voice Recognition	665
Felipe G. Barbosa, Washington L. Silva Serra	
Toward a Short Text Classification Framework Based on Background Knowledge Discovery Isak Taksa	672
Initial Pattern Library Algorithm Based on Mean/Variance Classification for 3D Som Li Hongsong, Cheng Fulin	678
Classification Using Jumping Emerging Patterns and Cosine Similarity Mauri Ferrandin, Adao Boava, Alex Sandro Roschildt Pinto	682
An Empirical Evaluation of Adaboost in Neat and Rtneat Robert Schukei, Blayne Mayfield	688

SESSION: NEURAL NETWORKS + OTHER ARTIFICIAL INTELLIGENCE ALGORITHMS AND APPLICATIONS

ALGORITHMS AND APPLICATIONS	
Spiking Neuron Model for Wavelet Encoding of Temporal Signals	693
Zhenzhong Wang, Lilin Guo, Malek Adjouadi	
Implementation of Hardware Model for Spiking Neural Network	700
Jungmin Choi, Minwook Ahn, Jong Tae Kim	
Application of Self-Organizing Feature maps to Water Resources Projects Bernard Hsieh, Jay Ratcliff	704
Main Principles of the General Theory of Neural Network with Internal Feedback Dmitri Pescianschi	711
An Application of Neural Networks to an Autonomous Car Driver Kholah Albelihi, Dana Vrajitoru	716
Analog and Digital Modeling of a Scalable Neural Network	723
Dmitri Pescianschi, Anastassia Boudichevskaia, Boris Zlotin, Vladimir Proseanic	
Training Artificial Neural Networks to Learn a Nondeterministic Game Thomas Portegys	729
SESSION: LATE BREAKING PAPERS: ARTIFICIAL INTELLIGENCE AN APPLICATIONS	ID
A Model and Appearance-based Approach for Gait Recognition using SVM	737
Weder Cabral Mendes, Gustavo Teodoro Laureano, Anderson Soares da Silva, Clarimar José Coe Caio Marcelo Nunes	elho,
User Interfaces for Representing Knowledge Stemming from Debates: Evaluating the Impact of Threading Models (Reviews) on Online Products Abdulrahman Alqahtani, Marius Silaghi	t 741
Intelligent Highway Vehicle Traffic Flow Monitoring and Control System Theko Emmanuel Marie, Barnabas Ndlovu Gatsheni	751
Using Modified Intelligent Water Drops Algorithm for QoS-driven Web Service Selection (MIWD-SS)	759
Leyli Mohammad Khanli, Neda Danandeh, Mehdi Mohammad Khanli	

SESSION: LATE POSTER PAPERS Predicting Correctness of 'Google Translate'	825
Comparative Semantic Study of Russian and English Constructions with Light Verbs Julia Ignatova, Irina M. Kobozeva	818
Linguistic Approach to Scientometrics Michael Charnine, Nikolay Somin, Stanislav Klimenko, Vladimir Ezhela	812
Gyeongmoon Park, Yongho Yoo, Jonghwan Kim	
REM-ART: Reward-based Electromagnetic Adaptive Resonance Theory	805
Bruna Santos, Adriano Cruz, Rodrigo de Toledo	
Automated Optimization for Web Page Design Based on User Interaction Analysis	79 9
Assistive Robots Bum-Soo Yoo, Yong-Ho Yoo, Woo-Ri Ko, Seung-Jae Lee, Seung-Hwan Baek, Se-Hyoung Cho, Jong-Hwan Kim	.,,
Realization of Task Intelligence Based on the Intelligence Operating Architecture for	793
Quetzali Madera, Mario Garcia, Oscar Castillo	707
Text Optimization using Interactive Evolutionary Computation Techniques	787
A Comparative Study of Metaheuristics Techniques for Portfolio Selection Problem Ayodele A. Adebiyi, Charles K. Ayo	781
Marcel Araujo, Rogerio Flauzino, Oureste Batista, Lucas Moraes	
Analysis of the Allocation of Surge Arresters in Distribution Lines against Induced Voltages by Indirect Lightning	774
Single Day In Istanbul Timur Keskinturk, Eyup Cetin, Bahadir Fatih Yildrim	
A Novel Metaheuristic Approach For Travelling Tourist Problem With Time Windows: A	770
Nabil Nassif, Sameer Hamoush, Dongwon Yoon	703
Building Energy Modeling Using Non-Linear Auto Regression Neural Networks	765

Yulia Rossikova, J. Jenny Li, Patricia Morreale