PROCEEDINGS OF THE 2014 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 2014 International Conference on Artificial Intelligence (ICAI'14), July 21-24, 2014, 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 78 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 55% 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 29; 14% 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'14, 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, 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); Taylor & Francis, UK (http://www.taylorandfrancis.com/); 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-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 5 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 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'14: Prof. Hamid R. Arabnia, Prof. David de la Fuente, 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'14.

Steering Committee, 2014 http://www.world-academy-of-science.org/

Contents

SESSION: KNOWLEDGE DISCOVERY AND LEARNING

Collaborative Information Analysis and Visualization for Knowledge Discovery Perakath Benjamin, Karthic Madanagopal, Chang-Nien Wu, Belita Gopal, John Hamilton	3
Artificial Intelligence and Radar Target Tracking Gerard Capraro	10
Deep Collaborative Data Fusion in a Cloud Framework Aaron Wheeler	16
Functions as Conditionally Discoverable Relational Database Tables Attila Ondi, Tod Hagan	20
Temporal Modeling of Twitter Posting Behavior: An Empirical Study Matthew Michelson, John Bumgarner	26
Case Studies: Big Data Analytics for System Health Monitoring Dinkar Mylaraswamy, Brian Xu, Paul Dietrich, Ananda Murugan	31
Identifying and Resolving Conflicts in Multi Source Data Joanna M. Brown, Connie Fournelle, John Spina	37
SESSION: THE INTERNATIONAL WORKSHOP ON INTELLIGENT LINGUISTIC TECHNOLOGIES 2014, ILINTEC'14	
Semantic Identification Of Text In The Class Of Tasks Of Information Retrieval Olga Golitsina, Nikolay Maksimov, Olga Okropishina, Anton Okropishin	47
Building Unified Knowledge Resources for Multiple Applications Max Petrenko, Gavin Matthews, Erin MacMurray van Liemt	53
A Rule-based Approach to Free Word Order Languages Anton Zimmerling	61
On The Method for Automatic Determination of Semantic Similarity of the Document Texts Victor N. Zakharov, Alexei A. Khoroshilov, Alexander A. Khoroshilov	68
Cognitive Machine Translation Model: POVs and Musketeer Classes as Algorithms of Shared Reality Boris Gorbis	74

Conceptual Business Process Structuring by Extracting Knowledge from Natural Language Texts	82
Oleg Zolotarev, Michael Charnine, Andrey Matskevich	
SESSION: NATURAL LANGUAGE PROCESSING, TOPIC DETECTION, LINGUISTIC BASED METHODS, HUMAN-MACHINE INTERACTION	
Representing Syntactic-Semantic Knowledge from English Texts	91
Richard Guidry Jr., Jianhua Chen	
Performance of a Natural Language Framework	98
Waleed Faris, Kam-Hoi Cheng	
Assigning Stress To Out-of-vocabulary Words: Three Approaches	105
Manex Agirrezabal, Jeffrey Heinz, Mans Hulden, Bertol Arrieta	
A System for Answering Scheduling Questions based on Concept Association	111
Eriko Yoshimura, Misako Imono, Seiji Tsuchiya, Hirokazu Watabe	
Graph-based Model for Topic Detection	118
Ang Zhao, Xin Lin, Jing Yang	
SESSION: ROBOTICS AND APPLICATIONS + BCI + PATTERN	
RECOGNITION AND DIMENSIONALITY REDUCTION METHODS	
Cloud Infrastructure for Mind-Machine Interface	127
Chris Crawford, Marvin Andujar, Sekou Remy, Juan Gilbert	
Bipedal Robot Walking and Balancing using a Neuronal Network Model	134
Robert Hercus, Litt-Pang Hiew, Nur'Ain Saaidon, Kit-Yee Wong, Kim-Fong Ho	
Fault Detection in Industrial Plant Using K-Nearest Neighbors with Random Subspace Method	141
Fellipe do Prado Arruda, Valniria da Silva Bandeira, Kleiton Vinícius Braga, Clarimar Jose Coelh Anderson da Silva Soares, Telma Woerle de Lima, Gustavo Teodoro Laureano	0,
A Pattern Recognition Model based on Invariant Representations of Space Time Data	147
Ollantay Medina, Vidya Manian, Roxana Aparicio	
Analogy and Pattern Recognition	154
Vitor Manuel Dinis Pereira	

Using Multilayer Perceptron Networks in Early Detection of Late Blight Disease in Tomato Leaves	158
Gizelle Kupac Vianna, Sergio Manuel Serra da Cruz	
SESSION: PARTICLE SWARM OPTIMIZATION ALGORITHMS AND APPLICATIONS	
Teeth Selection Using Particle Swarm Optimization	167
Aparecido Nilceu Marana, Elizabeth Bonsaglia Barboza, Alan Zanoni Peixinho, Denise Tostes Oliv	veira
SPSO-TVAC Congestion Management in an Practical Electricity Market Based Generator Sensitivity	173
Heidar Ali Shayanfar, Hossein Shayeghi, Ali Ghasemi	
Optimal Allocation and Sizing of Capacitors by BPSO Algorithm with Consideration of Annual Load Profile: A Real Case Study	180
Hossein Shayeghi, Heidar Ali Shayanfar, Ali Ghasemi	
SESSION: AGENT TECHNOLOGIES AND APPLICATIONS	
Manipulation of Nodes in a Connected Car Network	189
Henry Hexmoor, Guy Fraker	
A Brownian Agent Approach for Modeling and Simulating the Population Dynamics of the Schistosomiasis	193
Renato Luciano Cagnin, Ivan Rizzo Guilherme, Filipe Marcel Fernandes Goncalves, Jonas Filipe Pereira de Queiroz, Alexandro Baldassin	
A Pong Game Agent Using the Neuronal Network Model	200
Robert Hercus, Hong-Shim Kong	
Towards a Multi-Agent Architecture for Process Supervision and Control System	207
Jonas Filipe Pereira de Queiroz, Ivan Rizzo Guilherme, Renato Luciano Cagnin	
SESSION: FUZZY LOGIC AND SYSTEMS AND APPLICATIONS	
Processing of ICARTT Data Files Using Fuzzy Matching and Parser Combinators	217
Matthew Rutherford, Nathan Typanski, Dali Wang, Gao Chen	
Optimal Damping of Oscillation in Multi-machine Power System by Renewable Energy	221

Effects

Heidar Ali Shayanfar, Oveis Abedinia, Nima Amjady

FDM based MOP to Attune IPFC POD Controller and Dual-Input PSS in order to Improve Power System Dynamic Performance	228
Hossein Shayeghi, Yashar Hashemi, Heidar Ali Shayanfar	
SESSION: NEURAL NETWORKS AND APPLICATIONS + DATA MINING MACHINE LEARNING	+
Application of Multilayer Perceptrons for Response Modeling	237
Anatoli Nachev, Mairead Hogan	
A Comparison of Machine Learning Techniques for the Generation of River and Stream Water Quality Estimates	244
Alexander Maestre, Eman El-Sheikh	
Towards Optimizing the Selection of Neurons in Affordable Neural Networks Joel Ausonio, Richard Mitchell, William Holderbaum	254
Deep Neural Network Based Feature Representation for Weather Forecasting	261
James N.K. Liu, Yanxing Hu, Jane Jia You, Pak Wai Chan	
A Hybrid Artificial Neural Network and VEPSO based on Day-ahead Price Forecasting of Electricity Markets	268
Oveis Abedinia, Nima Amjady, Heidar Ali Shayanfar	
A Study on Violence in Major Metropolises using a Variables Treatment via Neural Networks - Self Organizing Maps	275
Isnard Martins, Edgard Thomas Martins	
Information-Theoretic Supervised SOM with Multiple-Winners Ryotaro Kamimura	282
EEG Signal Classification by Improved MLPs with New Target Vectors Jose Ricardo Goncalves Manzan, Shigueo Nomura, Joao Batista Destro Filho	288
Application of Artificial Neural Network Model in Forecasting Zaria Rainfall Folorrunsho Joseph Olaniyi	294
Use of Artificial Neural Networks for Completing Data Series Streamflow Hydrologic Sergio Luis Yoneda, Rogerio Andrade Flauzino, Lucas Assis Moraes, Marcel Ayres Araujo	300
SESSION: KNOWLEDGE ENGINEERING. EVOLUTIONARY STRATEGIES	S

SESSION: KNOWLEDGE ENGINEERING, EVOLUTIONARY STRATEGIES, GENETIC ALGORITHMS AND APPLICATIONS

Psychological Constructs for AI Systems: The Information Continuum 309

James Crowder

Implementation of an Evolutionary Algorithm Using the Node-Depth-Degree Encoding in a Nios II processor in FPGA	314
Gustavo Siqueira Vinhal, Anderson da Silva Soares, Telma Woerle Lima, Gustavo Teodoro Laure Clarimar Jose Coelho, Marcilyanne Moreira Gois, Alexandre Claudio Botazzo Delbem	ano,
Eliminating Cognitive Ambiguity with Knowledge Relativity Threads James Crowder, John Carbone	321
Genetic Algorithm Based Optimization for Energy-aware Hybrid Flow Shop Scheduling Jihong Yan, Jing Wen, Lin Li	327
SESSION: BAYESIAN BASED METHODS AND APPLICATIONS A Bayesian Network Analysis of Eyewitness Reliability: Part 1 Jack Horner	335
A Bayesian Network Analysis of Eyewitness Reliability: Part 2 Jack Horner	342
SESSION: INFORMATION RETRIEVAL AND SEARCH METHODS + DECISION SUPPORT SYSTEMS, EXPERT SYSTEMS AND APPLICATION	NS
Improving Clinical Practice using Clinical Decision Support Systems with Medical Logic Modules	351
Christian J. Schuh, Walter Seeling, Jeroen S. de Bruin	
Using an Inference Engine as AI in the Office Tactics Video Game Arturo Concepcion, Edward Munoz, Matthew Hawkins, Diane Balane	358
Topic-Model based Query Intent Prediction for Search by Multiple Examples Mingzhu Zhu, Chao Xu, Yi-Fang Wu	365
Semantic and Spatial Similarity in Geographic Information Retrieval Neili Machado Garcia, Yusney Marrero Garcia, Carlos Balmaseda Espinosa, Andres Montoyo Guijarro	372
A Hybrid Search Method to Find Minimal Length Paths for Navigation Route Planning Yong-Hu Lee, Sang-Woon Kim	378

SESSION: LEARNING METHODS + ONTOLOGY, ONTOLOGICAL ARGUMENTS, AND LOGIC + KNOWLEDGE REPRESENTATION AND KNOWLEDGE BASED SYSTEMS

A Protocol for Intelligent Agent Systems Enabling Incidental Learning on the Web Harris Wang	387
The Cognitive, Interactive Training Environment (CITE) James Crowder, Shelli Friess	393
A Population-Based Incremental Learning Tool for Finite Impulse Response (FIR) Filters Design Katherine Ortega Galeano, Freddy Bolanos Martinez	398
Error Analysis for Vector-Valued Regularized Least-Squares Algorithm Yong Liu, Shizhong Liao	403
A Computationally Generated Ontological Argument Based on Spinoza's The Ethics: Part 1 Jack Horner	410
A Computationally Generated Ontological arguent Based on Spinoza's The Ethics: Part 2 Jack Horner	417
A Computationally Generated Ontological Argument Based on Spinoza's The Ethics: Part 3 Jack Horner	424
A Computationally Generated Ontological Argument Based on Spinoza's The Ethics: Part 4 Jack Horner	431
A Computationally Generated Ontological Argument Based on Spinoza's The Ethics: Part 5 Jack Horner	437
A Knowledge Based System for Law Domain Maria da Graca Pereira	444
Ontologies to Coordinate Multiple Views: Exploring Document Collections Jorge Marques Prates, Rogerio Eduardo Garcia, Danilo Medeiros Eler	450
SESSION: MEDICAL APPLICATIONS, ASSISTIVE LIVING + HEALTHCAI Magnetic Resonance Imaging Registration With Artificial Neural Networks Pramod Gadde, Xiao-Hua Yu	RE 459
Apply an Autonomous System for Identification of Some Living Activities in Bathroom Fu-Hua Chou, Sue-Ping Yuan	465

Kamuela Parker, Heui-Seok Lim	
SESSION: ARTIFICIAL INTELLIGENCE, ALGORITHMS AND APPLICATION + COMPUTATIONAL SCIENCE AND INTELLIGENCE	ONS
A Framework for Trust based shared Economy	477
Henry Hexmoor, Markum Reed, Purvag Patel, Guy Fraker	-7.7
Artificial Intelligence in Clothing Fashion Haosha Wang, Khaled Rasheed	484
Implementation to Provide Individual Illuminance and Color Temperature in an Intelligent Lighting System without Chroma Meter	491
Risa Kawashima, Mitsunori Miki, Hisanori Ikegami, Yohei Azuma, Hiroto Aida	
NeuroSNP: Tool to Filter SNPs in Whole Genomic DNA Bruno Zonovelli, Carlos Cristiano Hasenclever Borges, Wagner Antonio Arbex	497
Representation and Efficient Algorithms for the Study of Cell Signaling Pathways Andrei Doncescu, Pierre Siegel, Tan Le	504
Methods of Arabic Manuscripts Digitization Oleg Redkin, Olga Bernikova	511
A Top-down Perception Approach for Object recognition	516
Coralie Bernay-Angeletti, Claude Aynaud, Roland Chapuis, Romuald Aufrere	
Estimation of Illuminance/Luminance Influence Factor in Intelligent Lighting System Using Operation Log Data	523
Yuki Sakakibara, Mitsunori Miki, Hisanori Ikegami, Hiroto Aida	
Heuristic Applied to the Euclidean Steiner Tree Problem with Node-depth-degree Encoding Marcos Antonio Almeida de Oliveira, Telma Woerle de Lima, Les R. Foulds, Anderson da Silva So Alexandre Claudio Botazzo Delbem, Clarimar Jose Coelho	530 pares,
Reducing the Number of Times Lighting Control is required to reach Illuminance Convergence in the Intelligent Lighting System Shelvei Metanghita, She Venngiing, Mitangori Miki, Hisangori Hoogani, Hinata Aida	535
Shohei Matsushita, Sho Kuwajima, Mitsunori Miki, Hisanori Ikegami, Hiroto Aida	
An Automatic Speech Recognition for the Filipino Language Using the HTK System John Lorenzo Bautista, Yoon Joon Kim	542
An Intelligent Lighting System using a Smartphone as an Illuminance Sensor	548
Sho Kuwajima, Shohei Matsushita, Mitsunori Miki, Hisanori Ikegami, Yohei Azuma, Hiroto Aida	

A Comparative Analysis for Mobile and Computer-Based Aphasia Therapy

472

The Prediction and Classification of Family Type by using Power Consumption Model over Smart Grid Jihyun Kim, Howon Kim	555
An Extraction Method of Influential Lightings for Illuminance Sensors on An Intelligent Lighting System in Large Office	561
Hisanori Ikegami, Sho Kuwajima, Mitsunori Miki, Hiroto Aida	
A New Competitive Ensemble Algorithm (ERAB) Honghai Feng, Junhui Huang, Lijuan Liu, Kaiwei Zou, Zhuo Ran, Qiannan Zhu, Lijin Ji, Sai Liu, Xiangyong Lu	568
Education Environment Comparative Studies: Actors And Resources In Distance Edgard Thomas Martins, Isnard Thomas Martins	574
SESSION: XIV TECHNICAL SESSION ON APPLICATIONS OF ADVANCED TECHNIQUES TO INFORMATION MANAGEMENT FOR SOLVING COMPANY-RELATED PROBLEMS) AI
On Improving Failure Mode and Effects Analysis (FMEA) From Different Artificial Intelligence Approaches	581
Javier Puente, Paolo Priore, Isabel Fernandez, Nazario Garcia, David de La Fuente, Raul Pino	
ILS with Multiple Variable Neighbourhood Descendent for the Vehicle Routing Problem with Multiple Trips	587
Alberto Gomez, Daniel Arguelles, Ivan Gallego, Jose Lopez, Jose Parreno, David de La Fuente	
Predictive Capacity of VIX and VDAX in Relation to the First Maturity Javier Giner, Sandra Morini, Rafael Rosillo, David de La Fuente, Borja Ponte, Jesus Lozano	594
From the RCPSP to the DRCMPSP: Methodological Foundations	599
Felix Villafanez, Adolfo Lopez-Paredes, Javier Pajares, David de La Fuente	
Improving Business Processes Management Systems by Introducing Soft Computing Elements	605
Francisco P. Romero, Arturo Peralta, Jose A. Olivas, Jesus Serrano-Guerrero, Sergio Moreno	
Summarizing Information by Means of Causal Sentences C. Puente, Jose A. Olivas, I. Prado	611
SESSION: POSTERS	
Computational Evaluation of Planarian Regeneration Models Marianna Budnikova, Jeffrey Habig, Tim Andersen	619

Current Events Information Providing System based on Personal Information and General Importance	621
Hirokazu Watabe, Misako Imono, Eriko Yoshimura, Seiji Tsuchiya	
Judging Emotion from EEGs Using a Clustered EEG Feature Knowledge Base Seiji Tsuchiya, Misako Imono, Eriko Yoshimura, Hirokazu Watabe	623
Human-Robot Teaming with Sliding Autonomy	625
Jacob Longazo, Michael Heid, Fang Tang	
SESSION: LATE BREAKING PAPERS AND POSITION PAPERS: ARTIFICI INTELLIGENCE AND APPLICATIONS	[AL
Automatic Selection and Analysis of Synonyms in Japanese Sentences Using Machine Learning	629
Masaki Murata, Yoshiki Goda, Masato Tokuhisa	
Constraint Based Staff Scheduling Optimization using Single Player Monte Carlo Tree Search	633
CheeChian Cheng, Norman Carver, Shahram Rahimi	
Conceptual Text Generation Based on Key Phrases	639
Michael Charnine, Nikolai Somin, Vladimir Nikolaev	
Binary Output of Multiple Linear Perceptrons with Three Hidden Nodes for Classification Problems	644
Mingchen Yao, Qilin Sun, Sibo Yang, Jing Wang, Wei Wu	
Underwater Acoustic Monitoring Using MFCC for Fuzzy C-Means Clustering, Naive-Bayes and Hidden Markov Model-Based Classifiers	650
Cristian Alzate, Samira Ortiz, Vidya Manian	
The Crowdsourcing Linguistic Technology for Expert Assessment Vladislav Protasov, Michael Charnine, Eugene Melnikov	656
Global Temperature vs. Greenhouse Emissions Model: Genetic Algorithm Driven Parametric Multiobjective Fitting	662
Javier Sanchez-Medina, Jeffrey Miller, Enrique Rubio-Royo	
The SWAM Arabic Morphological Tagger: Multilevel Tagging and Diacritization Using Lexicon Driven Morphotatics and Viterbi	668

Mohammed ELAffendi, Majdi ALtayeb

Malware Detection with Computational Intelligence	674
Brittany Byrd, Rakesh Malik, Venkata Kandalam, Qingzhong Liu	
Hierarchical Artificial Bee Colony Optimizer for Multilevel Threshold Image Segmentation Maowe He, Hanning Chen, Kunyuan Hu	678
Combination and Analysis of Features From Forensic Letters Aline Amaral, Cinthia Freitas, Flavio Bortolozzi	685

Comparaison of Support Vector Machine and Leaky-Integrate & Fire SNN model for Object 691 Recognition

Soni Chaturvedi, Aleefia Khurshid

Improving the Recall of Context-sensitive Spelling Correction by Loosening the Case-Particle 695 Constraints

Hyun soo Choi, Aesun Yoon, Hyuk-Chul Kwon