Contents

Part I Mobile Agent Security and Multi-Agent Systems

MASIR: A Multi-agent System for Real-Time Information Retrieval from Microblogs During Unexpected Events
Imen Bizid, Patrice Boursier, Jacques Morcos and Sami Faiz

Towards a Distributed Multiagent Travel Simulation
Matthieu Mastio, Mahdi Zargayouna and Omer Rana

Security of Mobile Agent Platforms Using Access Control and Cryptography
Hind Idrissi, El Mamoun Souidi and Arnaud Revel

Data Filtering in Context-Aware Multi-agent System for Machine-to-Machine Communication
Pavle Skocir, Hrvoje Maracic, Mario Kusek and Gordan Jezic

Part II Agent-Based Algorithms, Simulations and Organizations

Combining Process Simulation and Agent Organizational Structure Evaluation in Order to Analyze Disaster Response Plans
Nguyen Tuan Thanh Le, Chihab Hanachi, Serge Stinckwich and Tuong Vinh Ho

Evaluation of Organization in Multiagent Systems for Fault Detection and Isolation
Faten Ben Hmida, Wided Lejouad Chaari and Moncef Tagina
The Application of Co-evolutionary Genetic Programming and TD(1) Reinforcement Learning in Large-Scale Strategy Game VCMI ........................................... 81 Łukasz Wilisowski and Rafał Dreżewski

Agent-Based Neuro-Evolution Algorithm ........................................... 95 Rafał Dreżewski, Krzysztof Cetnarowicz, Grzegorz Dziuban, Szymon Martynuska and Aleksander Byrski

Towards Designing Android Faces After Actual Humans ................. 109 Evgenios Vlachos and Henrik Schärfe

Part III IS: Agent-Based Modelling and Simulation

Multi-objective Optimization for Clustering Microarray Gene Expression Data - A Comparative Study ........................................... 123 Muhammad Marwan Muhammad Fuad

Group Control Strategy for a Fleet of Intelligent Vehicles-Agent Performing Monitoring ........................................... 135 Viacheslav Abrosimov

Economic Demand Functions in Simulation: Agent-Based Vs. Monte Carlo Approach ........................................... 145 Roman Šperka

Agent-Based Simulation Model of Sexual Selection Mechanism ...... 155 Rafał Dreżewski

Core of n-Person Transferable Utility Games with Intuitionistic Fuzzy Expectations ........................................... 167 Elena Mielcová

Self-learning Genetic Algorithm for Neural Network Topology Optimization ........................................... 179 Radomir Perzina

Part IV IS: Business Model Innovation and Disruptive Technologies

Bitcoin: Bubble or Blockchain ........................................... 191 Philip Godsiff
A Hybrid On-line Topic Groups Mining Platform .............................. 205
Cheng-Lin Yang and Yun-Heh Chen-Burger

On Autonomic Platform-as-a-Service: Characterisation and Conceptual Model ........................................... 217
Rafael Tolosana-Calasanz, José Ángel Bañares and José-Manuel Colom

Disruptive Innovation: A Dedicated Forecasting Framework ............. 227
Sanaa Diab, John Kanyaru and Hind Zantout

Enabling Data Subjects to Remain Data Owners ................................. 239
Eliza Papadopoulou, Alex Stobart, Nick K. Taylor and M. Howard Williams

A Survey of Business Models in eCommerce .................................. 249
Urszula Doloto and Yun-Heh Chen-Burger

Part V IS: Anthropic-Oriented Computing

Human-Related Factors in Knowledge Transfer: A Case Study .......... 263
Sergey V. Zykov

Enterprise Applications as Anthropic-Oriented Systems: Patterns and Instances ...................................................... 275
Sergey V. Zykov

Fault Detection in WSNs - An Energy Efficiency Perspective Towards Human-Centric WSNs ........................................ 285
Charalampos Orfanidis, Yue Zhang and Nicola Dragoni

Thinking Lifecycle as an Implementation of Machine Understanding in Software Maintenance Automation Domain .... 301
Alexander Toschev and Max Talanov

Towards Anthropo-Inspired Computational Systems:
The $P^3$ Model ................................................................. 311
Michael W. Bridges, Salvatore Distefano, Manuel Mazzara, Marat Minlebaev, Max Talanov and Jordi Vallverdú
Part VI IS: The Design and Implementation of Intelligent Agents and Multi-Agent Systems

Keyword Search in P2P Relational Databases .......................... 325
Tadeusz Pankowski

Intelligent Social Agent for the Development of Social Relations Based on Primary Emotions .......................... 337
Arnulfo Alanis Garza, Lenin G. Lemus Zuñiga,
María del Rosario Baltazar, Bogart Yail Marquez,
Carlos Lino Ramírez and Karina Romero

Recognition of Primary Emotions Using the Paradigm of Intelligent Agents for the Recognition of Subtle Facial Expressions .......................... 345
Enrique Aguirre, Arnulfo Alanis Garza, María del Rosario Baltazar,
Lenin G. Lemus Zuñiga, Sergio Magdaleno Palencia
and Carlos Lino Ramírez

Assessment and Intervention with Wii Fit in the Elderly .......................... 353
Lenin Guillermo Lemus Zúñiga, Natalia Fernández Pintos,
Esperanza Navarro Pardo, Arnulfo Alanis Garza
and José Miguel Montañana Aliaga

A Multiagent System Proposal for 30 Day Readmission Problem Management .......................... 363
M.A. Mateo Pla, L. Lemus Zúñiga, J.M. Montañana, J. Pons Terol
and S. Tortajada

Part VII IS: Serious Game and Business Intelligence Through Agent-Based Modelling

An Evaluation Model for Order-Decision Methods of Contents in Information-Providing Sites .......................... 375
Masato Mori and Setsuya Kurahashi

Analysis of the Network Effects on Obesity Epidemic:
Agent-Based Modeling with Norm-Related Adaptive Behavior .......................... 393
Kazu moto Takayanagi and Setsuya Kurahashi

A Health Policy Simulation Model of Smallpox and Ebola Haemorrhagic Fever .......................... 405
Setsuya Kurahashi and Takao Terano