Contents

Multiagent Methodology to Reduce the Bullwhip Effect in a Supply Chain 1
Borja Ponte, Raúl Pino, and David de la Fuente

Behavioural Investigations of Financial Trading Agents Using Exchange Portal (ExPo) 22
Steve Stotter, John Cartlidge, and Dave Cliff

An Overview of the Interrelation Among Agent Systems, Learning Models and Formal Languages 46
Leonor Becerra-Bonache and M. Dolores Jiménez-López

An Agent-Based Approach for Accident Analysis in Safety Critical Domains: A Case Study on a Runway Incursion Incident 66
Tibor Bosse and Nataliya M. Mogles

Inference of Markov Chain Models by Using k-Testable Language: Application on Aging People 89
Catherine Combes and Jean Azema

Finite Automata with Translucent Letters Applied in Natural and Formal Language Theory 107
Benedek Nagy and László Kovács

Distributed Evacuation Route Planning Using Mobile Agents 128
Alejandro Avilés, Munehiro Takimoto, and Yasushi Kambayashi

Situation Theory, Situated Information, and Situated Agents 145
Roussanka Loukanova

Conditional Preference Networks Support Multi-issue Negotiations with Mediator 171
Sujata Ghosh, Thiri Haymar Kyaw, and Rineke Verbrugge

Genetic Algorithm and Firefly Algorithm Hybrid Schemes for Cultivation Processes Modelling 196
Olympia Roeva

Color Quantization with Magnitude Sensitive Competitive Learning Algorithm . . . 212
Enrique Pelayo, David Buldain, and Carlos Orrite

A Subset-Based Ant Colony Optimisation with Tournament Path Selection for High-Dimensional Problems 232
Emmanuel Sapin and Ed Keedwell

An Analysis of the Local Optima Storage Capacity of Hopfield Network Based Fitness Function Models 248
Kevin Swingler and Leslie Smith

On the Alzheimer's Disease Diagnosis: Automatic Spontaneous Speech Analysis 272
K. Lopez-de-Ipiña, J. Solé-Casals, J.B. Alonso, C.M. Travieso, M. Ecay, and P. Martinez-Lage

Synthesis of Multicomponent Reuse Water Networks by PSO Approach 282
Mauro A.S.S. Ravagnani, Daniela E.G. Trigueros, Aparecido N. Módenes, and Fernando Espinoza-Quiñones

Author Index 295

http://www.springer.com/978-3-662-44993-6

Transactions on Computational Collective Intelligence
XVII
Nguyen, N.T.; Kowalczyk, R.; Fred, A.; Joaquim, F. (Eds.)
2014, X, 295 p. 122 illus., Softcover
ISBN: 978-3-662-44993-6