

Contents

Invited Paper

- The New Era of High-Functionality Interfaces 3
Henry Lieberman, Christopher Fry, and Elizabeth Rosenzweig

Agents

- Performance of Communicating Cognitive Agents in Cooperative Robot Teams 13
Changyun Wei, Koen V. Hindriks, and Catholijn M. Jonker
- Agent-Based Simulation of Interconnected Wholesale Electricity Markets: An Application to the German and French Market Area. 32
Andreas Bublit, Philipp Ringler, Massimo Genoese, and Wolf Fichtner
- Cooperative Transportation Using Pheromone Agents 46
Ryo Takahashi, Munehiro Takimoto, and Yasushi Kambayashi
- Design and Simulation of a Low-Resource Processing Platform for Mobile Multi-agent Systems in Distributed Heterogeneous Networks 63
Stefan Bosse
- Behavior Clustering and Explication for the Study of Agents' Credibility: Application to a Virtual Driver Simulation 82
Kévin Darty, Julien Saunier, and Nicolas Sabouret

Artificial Intelligence

- Knowledge Gradient for Online Reinforcement Learning 103
Saba Yahyaa and Bernard Manderick
- Statistical Response Method and Learning Data Acquisition using Gamified Crowdsourcing for a Non-task-oriented Dialogue Agent. 119
Michimasa Inaba, Naoyuki Iwata, Fujio Toriumi, Takatsugu Hirayama, Yu Enokibori, Kenichi Takahashi, and Kenji Mase
- A Method for Binarization of Document Images from a Live Camera Stream 137
Mattias Wahde

A Probabilistic Semantics for Cognitive Maps	151
<i>Aymeric Le Dorze, Béatrice Duval, Laurent Garcia, David Genest, Philippe Leray, and Stéphane Loiseau</i>	
New Techniques for Checking Dynamic Controllability of Simple Temporal Networks with Uncertainty.	170
<i>Luke Hunsberger</i>	
Adaptive Neural Topology Based on Vapnik-Chervonenkis Dimension	194
<i>Beatriz Pérez-Sánchez, Oscar Fontenla-Romero, and Bertha Guijarro-Berdiñas</i>	
Towards the Identification of Outliers in Satellite Telemetry Data by Using Fourier Coefficients.	211
<i>Fabien Bouleau and Christoph Schommer</i>	
A Probabilistic Approach to Represent Emotions Intensity into BDI Agents . . .	225
<i>João Carlos Gluz and Patricia Augustin Jaques</i>	
Revisiting Classical Dynamic Controllability: A Tighter Complexity Analysis.	243
<i>Mikael Nilsson, Jonas Kvarnström, and Patrick Doherty</i>	
ReCon: An Online Task ReConfiguration Approach for Robust Plan Execution.	262
<i>Enrico Scala, Roberto Micalizio, and Pietro Torasso</i>	
Combining Semantic Query Disambiguation and Expansion to Improve Intelligent Information Retrieval	280
<i>Bilel Elayeb, Ibrahim Bounhas, Oussama Ben Khiroun, and Narjès Bellamine Ben Saoud</i>	
Full-Reference Predictive Modeling of Subjective Image Quality Assessment with ANFIS	296
<i>El-Sayed M. El-Alfy and Mohammed Rehan Riaz</i>	
A Heuristic Automatic Clustering Method Based on Hierarchical Clustering . . .	312
<i>François LaPlante, Nabil Belacel, and Mustapha Kardouchi</i>	
Robust Signature Discovery for Affymetrix GeneChip® Cancer Classification	329
<i>Hung-Ming Lai, Andreas Albrecht, and Kathleen Steinhöfel</i>	

Influence of the Interest Operators in the Detection of Spontaneous Reactions to the Sound	346
<i>A. Fernández, J. Marey, M. Ortega, and M.G. Penedo</i>	
Confidence Measure for Experimental Automatic Face Recognition System . . .	362
<i>Pavel Král and Ladislav Lenc</i>	
Author Index	379

Agents and Artificial Intelligence

6th International Conference, ICAART 2014, Angers,

France, March 6-8, 2014, Revised Selected Papers

Duval, B.; van den Herik, J.; Loiseau, S.; Filipe, J. (Eds.)

2015, XIX, 379 p. 139 illus. in color., Softcover

ISBN: 978-3-319-25209-4