

# Contents

## Invited Paper

- Investigations with Monte Carlo Tree Search for Finding Better Multivariate  
Horner Schemes . . . . . 3  
*H. Jaap van den Herik, Jan Kuipers, Jos A.M. Vermaseren, and Aske Plaat*

## Agents

- COHDA: A Combinatorial Optimization Heuristic for Distributed Agents . . . 23  
*Christian Hinrichs, Sebastian Lehnhoff, and Michael Sonnenschein*
- Rough Terrain Motion Planning for Actuated, Tracked Robots . . . . . 40  
*Michael Brunner, Bernd Brüggemann, and Dirk Schulz*
- A Framework Covering the Influence of FFM/NEO PI-R Traits over the  
Dialogical Process of Rational Agents . . . . . 62  
*Jean-Paul Sansonnet and François Bouchet*
- Instrumentalization of Norm-regulated Transition System Situations . . . . . 80  
*Magnus Hjelmblom*
- Path Planning for Tentacle Robots Using Soft Constraints . . . . . 95  
*Jing Yang, Patrick Dymond, and Michael Jenkin*

## Artificial Intelligence

- Enhancing Products by Embedding Agents: Adding an Agent to a Robot  
for Monitoring, Maintenance and Disaster Prevention . . . . . 115  
*Leo van Moergestel, Erik Puik, Daniël Telgen, Hendrik Folmer,  
Matthijs Grünbauer, Robbert Proost, Hielke Veringa, and John-Jules Meyer*
- Epistemic and Probabilistic ATL with Quantification and Explicit Strategies . . . 131  
*Henning Schnoor*
- Emergent Image Segmentation by Means of Evolved Connectionist Models  
and Using a Topological Active Net Model . . . . . 149  
*Jorge Novo, Cristina V. Sierra, José Santos, and Manuel G. Penedo*
- Hand Gesture Recognition for Human Computer Interaction:  
A Comparative Study of Different Image Features. . . . . 162  
*Paulo Trigueiros, Fernando Ribeiro, and Luis Paulo Reis*

Evaluation of Class Binarization and Feature Selection in Tear-Film Classification using TOPSIS. . . . .	179
<i>Rebeca Méndez, Beatriz Remeseiro, Diego Peteiro-Barral, and Manuel G. Penedo</i>	
SMACH: Agent-Based Simulation Investigation on Human Activities and Household Electrical Consumption . . . . .	194
<i>Édouard Amouroux, Thomas Huraux, François Sempé, Nicolas Sabouret, and Yvon Haradji</i>	
Mapping Multichannel Documents to Attentive Tasks: Ensuring Information Gain and Detecting Failure. . . . .	211
<i>Kristin Stamm and Andreas Dengel</i>	
Constraint-Handling with Support Vector Decoders . . . . .	228
<i>Jörg Bremer and Michael Sonnenschein</i>	
Generation of Learning Situations According to the Learner's Profile Within a Virtual Environment. . . . .	245
<i>Kevin Carpentier and Domitile Lourdeaux</i>	
Sentence Reduction Algorithms to Improve Multi-document Summarization . . .	261
<i>Sara Botelho Silveira and António Branco</i>	
Diverse Planning for UAV Trajectories . . . . .	277
<i>Jan Tožička, David Šišlák, and Michal Pěchouček</i>	
Behavioral Reasoning on Semantic Business Processes in a Rule-Based Framework. . . . .	293
<i>Fabrizio Smith and Maurizio Proietti</i>	
An Algorithm for Checking the Dynamic Controllability of a Conditional Simple Temporal Network with Uncertainty - Revisited. . . . .	314
<i>Carlo Combi, Luke Hunsberger, and Roberto Posenato</i>	
Magic Loops and the Dynamic Controllability of Simple Temporal Networks with Uncertainty . . . . .	332
<i>Luke Hunsberger</i>	
Evolving Optimal Spatial Allocation Policies for Complex and Uncertain Environments. . . . .	351
<i>Marta Vallejo, David W. Corne, and Verena Rieser</i>	
<b>Author Index . . . . .</b>	<b>371</b>