INVITED SPEAKERS

KEYNOTE SPEAKERS

Advances in Learning with Bayesian Networks
Philippe Leray

The New Era of High-Functionality Computing
Henry Lieberman

Agents and Semantics for Human Decision-Making
Matthias Klusch

The Brain Agent
Claude Frasson

The Intelligence of Agents in Games
Pieter Spronck

Agent-Oriented Software Engineering Reloaded
Marc-Philippe Huget

ARTIFICIAL INTELLIGENCE

FULL PAPERS

Online Knowledge Gradient Exploration in an Unknown Environment
Saba Q. Yahyaa and Bernard Manderick

Constructing a Non-task-oriented Dialogue Agent using Statistical Response Method and Gamification
Michimasa Inaba, Naoyuki Iwata, Fujio Toriumi, Takatsugu Hirayama, Yu Enokibori, Kenichi Takahashi and Kenji Mase

Solving Single Vehicle Pickup and Delivery Problems with Time Windows and Capacity Constraints using Nested Monte-Carlo Search
Stefan Edelkamp and Max Gath

A Method for Document Image Binarization based on Histogram Matching and Repeated Contrast Enhancement
Mattias Wahde

mC-ReliefF - An Extension of ReliefF for Cost-based Feature Selection
Verónica Bolón-Canedo, Beatriz Remeseiro, Noelia Sánchez-Marroño and Amparo Alonso-Betanzos

Probabilistic Cognitive Maps - Semantics of a Cognitive Map when the Values are Assumed to be Probabilities
Aymeric Le Dorze, Béatrice Duval, Laurent Garcia, David Genest, Philippe Leray and Stéphane Loiseau

A Faster Algorithm for Checking the Dynamic Controllability of Simple Temporal Networks with Uncertainty
Luke Hunsberger

Knowledge Gradient for Multi-objective Multi-armed Bandit Algorithms
Saba Q. Yahyaa, Madalina M. Drugan and Bernard Manderick
Evolutionary Fuzzy Rule Construction for Iterative Object Segmentation
Junji Otsuka and Tomoharu Nagao

Self-adaptive Topology Neural Network for Online Incremental Learning
Beatriz Pérez-Sánchez, Oscar Fontenla-Romero and Bertha Guijarro-Berdinas

Semantic Anonymisation of Set-valued Data
Montserrat Batet, Arnau Erola, David Sánchez and Jordi Castellà-Roca

Finding Outliers in Satellite Patterns by Learning Pattern Identities
Fabien Bouleau and Christoph Schommer

A Probabilistic Implementation of Emotional BDI Agents
João Gluz and Patricia Jaques

Classical Dynamic Controllability Revisited - A Tighter Bound on the Classical Algorithm
Mikael Nilsson, Jonas Kvarnström and Patrick Doherty

Robust Execution of Rover Plans via Action Modalities Reconfiguration
Enrico Scala, Roberto Micalizio and Pietro Torasso

Improving Query Expansion by Automatic Query Disambiguation in Intelligent Information Retrieval
Oussama Ben Khiroun, Bilal Elayeb, Ibrahim Bounhas, Fabrice Evrard and Narjès Bellamine Ben Saoud

Tracking Assembly Processes and Providing Assistance in Smart Factories
Sebastian Bader and Mario Aehnelt

Image Quality Assessment using ANFIS Approach
El-Sayed M. El-Alfy and Mohammed R. Riaz

Multiagent Planning Supported by Plan Diversity Metrics and Landmark Actions
Jan Tožička, Jan Jakubuš, Karel Durkota, Antonin Komenda and Michal Pechouček

Agent-based Simulations of Patterns for Self-adaptive Systems
Mariachiara Puviani, Giacomo Cabri and Franco Zambonelli

A Hierarchical Clustering Based Heuristic for Automatic Clustering
François LaPlante, Nabil Belacel and Mustapha Kardouchi

A Framework for High-Throughput Gene Signatures with Microarray-based Brain Cancer Gene Expression Profiling Data
Hung-Ming Lai, Andreas Albrecht and Kathleen Steinhöfel

Interest Operator Analysis for Automatic Assessment of Spontaneous Gestures in Audiometries
A. Fernández, J. Marvy, M. Ortega and M. G. Penedo

A Composed Confidence Measure for Automatic Face Recognition in Uncontrolled Environment
Pavel Král and Ladislav Lenc

SHORT PAPERS

Gender Classification based on Fingerprints using SVM
Romany F. Mansour, Abdulsamad Al-Marghilnai and Meshref Alruily

Adaptation Schemes for Question’s Level to be Proposed by Intelligent Tutoring Systems
Rina Azoulay, Esther David, Dorit Hutzler and Mireille Avigal
Providing Accessibility to Hearing-disabled by a Basque to Sign Language Translation System

Maria del Puy Carretero, Miren Urteaga, Aitor Ardanza, Mikel Eizagirre, Sara Garcia and David Oyarzun

Experiments Assessing Learning of Agent Behavior using Genetic Programming with Multiple Trees

Takashi Ito, Kenichi Takahashi and Michimasa Inaba

Monitoring of Grinding Burn by AE and Vibration Signals

Rodolfo F. Godoy Neto, Marcelo Marchi, Cesar Martins, Paulo R. Aguiar and Eduardo Bianchi

Coverage and Goal Searching Behaviours of a Group of Agents by a Special Single Query Roadmap - Its Benefits to Multiple Query Roadmaps

Ali Nasri Nazif and Mohammad Torabi Rad

The Non-Force Interaction Theory for Reflex System Creation with Application to TV Voice Control

Iurii Teslia, Nataliia Popovych, Valerii Pylypenko and Oleksandr Chorny

Automatic Generation of Large Knowledge Bases using Deep Semantic and Linguistically Founded Methods

Sven Hartrumpf, Hermann Helbig and Ingo Phoenix

Predictive Text System for Bahasa with Frequency, n-gram, Probability Table and Syntactic using Grammar

Derwin Suhartono, Garry Wong, Polim Kusuma and Silviana Saputra

Effective Distribution of Large Scale Situated Agent-based Simulations

Omar Rihawi, Yann Secq and Philippe Mathieu

Validation of a Cognitive Map - Definition of Quality Criteria to Detect Contradictions in a Cognitive Map

Aymeric Le Dorze, Laurent Garcia, David Genest and Stéphane Loiseau

Monte Carlo Tree Search in The Octagon Theory

Hugo Fernandes, Pedro Nogueira and Eugénio Oliveira

Targeted Linked-Data Extractor

Pierre Maillot, Thomas Raimbault, David Genest and Stéphane Loiseau

Agent-based Manufacturing in a Production Grid - Adapting a Production Grid to the Production Paths

Leo van Moergestel, Daniël Telgen, Erik Puik and John-Jules Meyer

Learning on Vertically Partitioned Data based on Chi-square Feature Selection and Naive Bayes Classification

Verónica Bolón-Canedo, Diego Peteiro-Barral, Amparo Alonso-Betanzos, Bertha Guijarro-Berdíñas and Noelia Sánchez-Maroño

Functional Semantics for Non-prenex QBF

Igor Stéphan

Evaluation of Safe Explosive Charge in Surface Mines using Artificial Neural Network

Manoj Khandelwal

Materializing Distributed Skyline Queries

Samiha Brahimi and Mohamed-khireddine Kholladi

Scalability Analysis of mRMR for Microarray Data

Diego Rego-Fernández, Verónica Bolón-Canedo and Amparo Alonso-Betanzos
An Adaptive Model of Bus Arrival Time Prediction
Ling Xie, Peifeng Li and Qiaoming Zhu

Feature Selection Applied to Human Tear Film Classification
Daniel G. Villaverde, Beatriz Remeseiro, Noelia Barreira, Manuel G. Penedo and Antonio Mosquera

A New Approach based on Cryptography and XML Serialization for Mobile Agent Security
Hind Idrissi, Arnaud Revel and El Mamoun Souidi

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Aaron Hunter

Modeling and Algorithm for Dynamic Multi-objective Weighted Constraint Satisfaction Problem
Tenda Okimoto, Tony Ribeiro, Maxime Clement and Katsumi Inoue

Surprising Recipe Extraction based on Rarity and Generality of Ingredients
Kyosuke Ikejiri, Yuichi Sei, Hiroyuki Nakagawa, Yasuyuki Tahara and Akihiko Ohsuga

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Hikmat Farhat and Guillaume Feuillade

(Semi-)Automatic Analysis of Dialogues
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Enhance Text Recognition by Image Pre-Processing to Facilitate Library Services by Mobile Devices
Chuen-Min Huang, Yi-Ling Chuang, Rih-Wei Chang and Ya-Yun Chen

Why you should Empirically Evaluate your AI Tool - From SPOSH to yaPOSH
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A Robot Waiter that Predicts Events by High-level Scene Interpretation
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Motivational Strategies to Support Engagement of Learners in Serious Games
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Using Word Sense as a Latent Variable in LDA Can Improve Topic Modeling
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Quantum Probability in Operant Conditioning - Behavioral Uncertainty in Reinforcement Learning
Eduardo Alonso and Esther Mondragon

A Multi-agent Intelligent System for on Demand Transport Problem Solving
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Fundamental Artificial Intelligence - Machine Performance in Practical Turing Tests
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Martin Cerny, Tomas Plch, Matej Marko, Petr Ondracek and Cyril Brom

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A. González, C. Ortigueira, M. Ortega and M. G. Penedo

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Ben Ruijl, Jos Vermaseren, Aske Plaat and Jaap van den Herik

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Beatriz Remeseiro, Antonio Mosquera, Manuel G. Penedo and Carlos García-Resúa

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Valery Katerinchuk, Andreas Albrecht and Kathlen Steinhöfel

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