

## Accepted Papers for the 32nd Annual Conference on Artificial Intelligence

Papers accepted for oral presentation:

paperID	authors	title
228	Günther, Maik; Nissen, Volker	A Comparison of Neighbourhood Topologies for Staff Scheduling with Particle Swarm Optimisation
125	Kern-Isberner, Gabriele (1); Beierle, Christoph (2)	A Conceptual Agent Model based on a Uniform Approach to Various Belief Operations
208	Guhe, Markus; Smaill, Alan; Pease, Alison	A Formal Cognitive Model of Mathematical Metaphors
240	Schattenberg, Bernd; Bidot, Julien; Geßler, Sascha; Biundo, Susanne	A Framework For Interactive Hybrid Planning
167	Steffen, Jan; Pardowitz, Michael; Ritter, Helge	A Manifold Representation as Common Basis for Action Production and Recognition
116	Madow, Lawrence; Pérez de la Cruz, José Luis	A Memory-efficient Search Strategy for Multiobjective Shortest Path Problems
129	Azizi, Amir; Pourreza, Hamid Reza	A new Method for Iris Feature Extraction Based on Contourlet Transform and Co-occurrence Matrix
132	Schäufler, Christian; Artmann, Stefan; Beckstein, Clemens	A Structuralistic Approach to Ontologies
140	Ganascia, Jean-Gabriel (6)	AI viewed as a "Science of the Culture"
216	Tönnies, Hauke	An Evolutionary Graph Transformation System as a Modelling Framework for Evolutionary Algorithms
193	Schweizer, Immanuel; Panitzek, Kamill; Park, Sang-Hyeun; Fürnkranz, Johannes	An Exploitative Monte-Carlo Poker Agent
203	Lettow, Susanne	Artificial Minds, Artificial Subjects. AI Research and Philosophy of Mind since the 1960s
195	Steinbrecher, Matthias; Kruse, Rudolf	Assessing the Strength of Structural Changes in Cooccurrence Graphs
161	Autexier, Serge; Dietrich, Dominik	Atomic Metadедuction
219	Weiß, Katharina; Scharlau, Ingrid	Attention speeds up visual information processing: Selection for perception or Selection for action?
146	Liwicki, Marcus; Weber, Markus; Dengel, Andreas	Automatic Recognition and Interpretation of Pen- and Paper-Based Document Annotations
226	Lipinski, John; Sandamirskaya, Yulia; Schoener, Gregor	Behaviorally Flexible Spatial Communication: Robotic Demonstrations of a Neurodynamic Framework
151	Gottfried, Björn	Behaviour Monitoring and Interpretation: A Computational Approach to Ethology

115	Artmann, Stefan	Behavioural Congruence in Turing Test-like Human-Computer Interaction
225	Garbacz, Pawel; Kulicki, Piotr; Lechniak, Marek; Trypuz, Robert	Beyond Public Announcement Logic, An Alternative Approach to some AI Puzzles
133	Abou Assali, Amjad (1); Lenne, Dominique (1); Debray, Bruno (2)	Case Retrieval in Ontology-Based CBR Systems
156	Hollink, Vera; Someren, Maarten van; Boer, Victor de	Clustering Objects from Multiple Collections
186	Voronkov, Andrei; Hoder, Kryštof	Comparing Unification Algorithms in First-Order Theorem Proving
134	Maier, Paul (1); Sachenbacher, Martin (1); Rühr, Thomas (1); Kuhn, Lukas (2)	Constraint-Based Integration of Plan Tracking and Prognosis for Autonomous Production
171	Wang, Hongqi (1,2); Missura, Olana (1); Gaertner, Thomas (1); Wrobel, Stefan (1,2)	Context-Based Clustering of Image Search Results
234	Stalsh, Patrick O.; Butz, Martin V.; Pedersen, Gerulf K. M.	Controlling a Four Degree of Freedom Arm in 3D using XCSF
232	Zhang, Yi (1); Wang, Rui (2)	Correlating Natural Language Parser Performance with Statistical Measures of the Text
242	Aziz, Muhammad Zaheer; Mertsching, Bärbel	Early Clustering Approach Towards Modeling of Bottom-Up Visual Attention
106	Suda, Martin (1); Sutcliffe, Geoff (2); Wischnewski, Patrick (3); Lamotte-Schubert, Manuel (3); de Melo, Gerard (3)	External Sources of Axioms in Automated Theorem Proving
174	Petersen, Nils; Stricker, Didier	Fast Hand Detection Using Posture Invariant Constraints
197	Langer, Falk; Eilers, Dirk; Knorr, Rudi	Fault detection in discrete event based distributed systems by forecasting message sequences with neural networks
180	Cesta, Amedeo (1); Finzi, Alberto (2); Fratini, Simone (1); Orlandini, Andrea (3); Tronci, Enrico (4)	Flexible Timeline-based Plan Verification with UPPAAL-TIGA
198	Pfeiffer-Lessmann, Nadine; Wachsmuth, Ipke	Formalizing Joint Attention in Cooperative Interaction with a Virtual Human
218	Breuss, Michael (1); Dietrich, Dominik (2)	Fuzzy Logic for Hyperbolic Numerics
220	Jegelka, Stefanie Sabrina (1); Gretton, Arthur (1,2); Schölkopf, Bernhard (1); Sriperumbudur, Bharath Kumar (3); von Luxburg, Ulrike (1)	Generalized clustering via kernel embeddings
199	Gadzicki, Konrad	Hierarchical Clustering of Sensorimotor Features

144	Iqbal, Taswar (1); Lohweg, Volker (1); Le, Dinh Khoi (2); Nolte, Michael (2)	Human Perception Based Counterfeit Detection for Automated Teller Machines
118	Miksatko, Jan; Kipp, Michael	Hybrid Control for Embodied Agents Applications
147	Adrian, Benjamin (1); Hees, Jörn (2); van Elst, Ludger (1); Dengel, Andreas (1,2)	iDocument: Using Ontologies for Extracting and Annotating Information from Unstructured Text
141	Michaelsen, Eckart; Arens, Michael; Doktorski, Leo	Interaction of Control and Knowledge in a Structural Recognition System
170	Ben Amor, Heni; Berger, Erik; Vogt, David; Jung, Bernhard	Kinesthetic Bootstrapping: Teaching Motor Skills to Humanoid Robots through Physical Interaction
229	Kolomiyets, Oleksandr; Moens, Marie-Francine	Machine Learning Approaches for Temporal Information Extraction: A comparative study
162	Schaffernicht, Erik (1); Stephan, Volker (2); Debes, Klaus (1); Gross, Horst-Michael (1)	Machine Learning Techniques for Selforganizing Combustion Control
165	Volkhardt, Michael; Kalesse, Soeren; Mueller, Steffen; Gross, Horst-Michael	Maximum a Posteriori Estimation of Dynamically Changing Distributions
181	Klügl, Peter; Atzmüller, Martin; Puppe, Frank	Meta-Level Information Extraction
217	Belli, Fevzi (1); Eminov, Mübariz (2); Gökçe, Nida (3)	Model-Based Test Prioritizing – A Comparative Soft-Computing Approach and Case Studies
173	Nguyen, Nhung; Ipke, Wachsmuth	Modeling Peripersonal Action Space for Virtual Humans Using Touch and Proprioception
239	Hund, Marcus; Mertsching, Baerbel	Occlusion as a Monocular Depth Cue Derived from Illusory Contour Perception
152	Strass, Hannes; Thielscher, Michael	On Defaults in Action Theories
187	Hartanto, Ronny (1,2); Hertzberg, Joachim (2)	On the Benefit of Fusing DL-Reasoning with HTN-Planning
157	Chumerin, Nikolay (1); Manyakov, Nikolay V. (1); Combaz, Adrien (1); Suykens, Johan A.K. (2); Yazicioglu, Refet Firat (3); Torfs, Tom (3); Merken, Patrick (3); Neves, Hercules Pereira (3); Van Hoof, Chris (3); Van Hulle, Marc M. (1)	P300 detection based on Feature Extraction in on-line Brain-Computer Interface
175	Müller, Michael; Senftleben, Dennis; Pauli, Josef	Parameter Evolution: A Design Pattern for Active Vision
113	Edelkamp, Stefan (1); Dietzfelbinger, Martin (2)	Perfect Hashing for State Spaces in BDD Representation

188	Betz, Christoph; Helmert, Malte	Planning with h+ in Theory and Practice
196	Hellbach, Sven (1); Kolarow, Alexander (1); Eggert, Julian P. (2); Koerner, Edgar (2); Gross, Horst-Michael (1)	Prediction and Classification of Motion Trajectories using Spatio-Temporal NMF
124	Schiller, Marvin (1,2); Benzmueller, Christoph (3)	Presenting Proofs with Adapted Granularity
207	Kramer, Oliver; Koch, Patrick	Rake Selection: A Novel Evolutionary Multi-Objective Optimization Algorithm
143	Shafik, Mohamed; Mertsching, Baerbel	Real-Time Scan-Line Segment Based Stereo Vision for the Estimation of Biologically Motivated Classifier Cells
191	Kopp, Stefan; Bergmann, Kirsten; Buschmeier, Hendrik; Sadeghipour, Amir	Requirements, Principles, and Building Blocks for Sociable Interactive Agents
164	Pommerening, Florian; Wölfl, Stefan; Westphal, Matthias	Right-of-Way Rules as Use Case for Integrating GOLOG and Qualitative Reasoning
159	Lison, Pierre; Kruijff, Geert-Jan M.	Robust Processing of Situated Spoken Dialogue
166	Hanser, Eva; Mc Kevitt, Paul; Lunney, Tom; Condell, Joan	SceneMaker: Intelligent Multimodal Visualisation of Natural Language Scripts
169	Pardowitz, Michael; Steffen, Jan; Ritter, Helge	Self-Emerging Action Gestalts for Task Segmentation
185	Scheffler, Tatjana; Roller, Roland; Reithinger, Norbert	Semi-Automatic Creation of Resources for Spoken Dialog Systems
184	Edelkamp, Stefan (1); Kissmann, Peter (2)	Solving Fully-Observable Non-Deterministic Planning Problems via Translation into a General Game
182	Bercher, Pascal Tobias; Mattmüller, Robert	Solving Non-Deterministic Planning Problems with Pattern Database Heuristics
206	Kramer, Oliver; Barthelmes, André; Rudolph, Günter	Surrogate Constraint Functions for CMA Evolution Strategies
233	Butz, Martin V.; Pedersen, Gerulf K. M.	The Scared Robot: Motivations in a Simulated Robot Arm
224	Reichle, Meike; Bach, Kerstin; Althoff, Klaus-Dieter	The SEASALT Architecture and its Realization within the docQuery Project
194	Prade, Henri; Richard, Gilles	Three basic forms of analogy-based reasoning: Postulates and inferences
227	Wißner, Michael; Bee, Nikolaus; Kienberger, Julian; André, Elisabeth	To See and to be Seen in the Virtual Beer Garden - A Gaze Behavior System for Intelligent Virtual Agents in a 3D Environment
139	Kurata, Yohei; Shi, Hui	Toward Heterogeneous Cardinal Direction Calculus
120	Eberling, Markus	Towards Determining Cooperation based on Multiple Criteria

121	Lämmel, Gregor (1); Flötteröd, Gunnar (2)	Towards system optimum: Finding optimal routing strategies in time dependent networks for large-scale evacuation problems
127	Heinrich, Gregor (1,3); Schulz, Andre (2); Goesele, Michael (2)	Variational Bayes for generic topic models
122	Neumann, Florentin (1); Reichenberger, Andrea (2); Ziegler, Martin (3)	Variations of the Turing Test in the Age of Internet and Virtual Reality
205	Priess, Heinz-Werner; Scharlau, Ingrid	What you see is what you set – the position of moving objects.

**Papers accepted for poster presentation:**

paperID	authors	title
119	Klügl, Franziska (1); Klubertanz, Georg (2); Rindsfuser, Guido (2)	Agent-based Pedestrian Simulation of Train Evacuation Integrating Environmental Data
110	Zhang, Xiaowang (1,2); Lin, Zuoquan (1)	An Argumentation-based Approach to Handling Inconsistencies in DL-Lite
137	Shad, Rouzbeh; Mesgari, Mohammad Saadi; Ebadi, Hamid; Alimohammadi, Abbas; Abkar, Aliakbar; Vafaeenezhad, Alireza	An intelligent fuzzy agent for spatial reasoning in GIS
211	Matyas, Sebastian; Wullinger, Peter; Matyas, Christian	Building Geospatial Data Collections with Location-based Games
176	Weber, Markus (1); Roth-Berghofer, Thomas (1); Hudlet, Volker (2); Maus, Heiko (1); Dengel, Andreas (1)	Context-Aware Service Discovery using Case-Based Reasoning Methods
221	Malaka, Rainer (1); Porzel, Robert (2)	Design Principles for Embodied Interaction: The Case of Ubiquitous Computing
192	Hilkenmeier, Frederic; Tünnermann, Jan; Scharlau, Ingrid	Early Top-Down Influences in Control of Attention: Evidence from the Attentional Blink
179	Petruseva, Silvana	Forward chaining algorithm for solving the shortest path problem in arbitrary deterministic environment in linear time- applied for the Tower of Hanoi Problem
154	Kerber, Manfred	Heuristics for Resolution in Propositional Logic
230	Rafique, Amer Farhan; LinShu, He; Zeeshan, Qasim; Kamran, Ali	Multidisciplinary Design of Air-Launched Space Launch Vehicle using Simulated Annealing

148	Kruse, Michael; Baumann, Michael; Knieper, Tobias; Seipel, Christoph; Khaluf, Lial; Lehmann, Nico; Lermontow, Alex; Messinger, Christian; Richter, Simon; Schmidt, Thomas; Swars, Daniel	PaderRescue - Project-group for Agent-based Disaster Management and Emergent Realtime Rescue for Emergency SCenarios in Uncertain Environments
200	Beckert, Bernhard; Wagner, Markus	Probabilistic Models for the Verification of Human-Computer Interaction
231	Kramer, Oliver; Hein, Tobias	Stochastic Feature Selection in Support Vector Machine Based Instrument Recognition
117	Volkov, Vladimir Yurievich	Thresholding for Segmentation and Extraction of Extensive Objects on Digital Images