

# BNATIC 2004 - Program

## Paper, poster and demo presentation sessions

Thursday, 21 October

09:00 - 09:50	<b>Registration</b>		
09:50 - 10:00	<b>Opening</b> ( <i>Auditorium</i> )		
10:00 - 11:00	<b>Invited lecture: Prof. dr. Kerstin Dautenhahn, The Human in the Loop: Case Studies in Human-Robot Interaction Research</b> ( <i>Auditorium</i> )		
11:00 - 11:20	<b>Break</b>		
11:20 - 12:35	<b>Paper presentations: Session 1</b>		
	Session 1A: <i>Auditorium</i> <b>Agents I</b>	Session 1B: <i>Conference Room 1</i> <b>Machine learning I</b>	Session 1C: <i>Conference Room 2</i> <b>Ontology &amp; Semantic web</b>
	B. Reggers, F. Wiesman and Nico Roos: <i>Agents for Market-Based Computational-Resource Allocation</i>	I. Hendrickx and A. van den Bosch: <i>Maximum-Entropy Parameter Estimation for the k-NN Modified Value-Difference Kernel</i>	P. Bouquet, F. Giunchiglia, F. van Harmelen, L. Serafini and H. Stuckenschmidt: <i>C-OWL: Contextualizing Ontologies</i>
	J. Valk and P. van Tooren: <i>Multi-Agent Coordination in Dynamic Task Environments</i>	M. van Gerven and P. Lucas: <i>Using Background Knowledge to Construct Bayesian Classifiers for Data-Poor Domains</i>	P. Mika, D. Oberle, A. Gangemi and M. Sabou: <i>Foundations for Service Ontologies: Aligning OWL-S to DOLCE</i>
	P.J. 't Hoen and S.M. Bohte: <i>Collective Intelligence with Sequences of Actions</i>	M. Van Otterlo, K. Kersting and L. De Raedt: <i>Bellman goes Relational</i>	B. Wielinga, J. Wielemaker, G. Schreiber and M. van Assem: <i>Methods for Porting Resources to the Semantic Web</i>
12:35 - 13:35	<b>Lunch</b>		
13:35 - 14:50	<b>Paper presentations: Session 2</b>		
	Session 2A: <i>Auditorium</i> <b>Machine learning II</b>	Session 2B: <i>Conference Room 1</i> <b>Logic in AI</b>	Session 2C: <i>Conference Room 2</i> <b>Communication &amp; Negotiation</b>
	E.L. van den Broek and E.M. van Rikxoort: <i>Evaluation of Color Representation for Texture Analysis</i>	H.W. de Haan, W.H. Hesselink and G.R. Renardel de Lavalette: <i>Knowledge-Based Asynchronous Programming</i>	D. Weyns, E. Steegmans and T. Holvoet: <i>Protocol-based Communication for Situated Agents</i>
	E.N. Smirnov, I.G. Sprinkhuizen-Kuyper and G.I. Nalbantov: <i>Unanimous Voting using Support Vector Machines</i>	B. Verheij: <i>Dialectical argumentation with argumentation schemes: an approach to legal logic</i>	C. Jonker and V. Robu: <i>Automated Multi-Attribute Negotiation Using Incomplete Preference Information</i>
	S.M. Bohte, M. Breitenbach and G.Z. Grudic: <i>Nonparametric Classification with Polynomial MPMC Cascades</i>	M. Denecker and E. Ternovska: <i>Inductive Situation Calculus</i>	K. Somefun, T. Klos and H. La Poutré: <i>Negotiating over Bundles and Prices Using Aggregate Knowledge</i>
14:50 - 15:10	<b>Break</b>		
15:10 - 16:50	<b>Paper, poster and demo presentations: Session 3</b>		
	Session 3 : <i>Auditorium</i> <b>Short presentations of demonstrations</b>	Session 3B: <i>Conference Room 1</i> <b>Posters</b>	Session 3C: <i>Conference Room 2</i> <b>Planning (15:35 - 16:50)</b>
	For a complete overview of all demonstration presentations look at the end of the program	For a complete overview of all poster presentations look at the end of the program	J. Zutt and C. Witteveen: <i>Multi-Agent Transport Planning</i>
			R. van der Krogt and M. de Weerd: <i>The Two Faces of Plan Repair</i>
			P. Buzing and C. Witteveen: <i>Distributed (Re)Planning With Preference Information</i>
16:50	<b>Move to reception</b>		
19:00	<b>Dinner</b>		

## Friday, 22 October

09:00 - 10:00	<b>Invited lecture: Prof. dr. Patrick Doherty, Advanced Research with Autonomous Unmanned Aerial Vehicles</b> ( <i>Auditorium</i> )		
10:00 - 11:15	<b>Paper presentations: Session 4</b>		
	Session 4A: <i>Auditorium</i> <b>Agents II</b>	Session 4B: <i>Conference Room 1</i> <b>Machine learning III</b>	Session 4C: <i>Conference Room 2</i> <b>Cognitive modeling</b>
	M. Dastani, J. Hulstijn, F. Dignum and J.-J. Ch. Meyer: <i>Issues in Multiagent System Development</i>	J.J. Verbeek, N. Vlassis and B.J.A. Kröse: <i>Self-organising mixture models</i>	J. Lacroix, J. Murre, E. Postma and J. van den Herik: <i>The natural input memory model</i>
	R.-J. Beun and R.M. van Eijk: <i>Ontological Feedback in Multiagent Systems</i>	J.R. Kok and N. Vlassis: <i>Sparse Cooperative Q-learning</i>	L.J.M. Rothkrantz, P. Wiggers, J.W.A. van Wees and R.J. van Vark: <i>Voice Stress Analysis</i>
	T.Bosse, C.M. Jonker and J. Treur: <i>Analysis of Design Process Dynamics</i>	I. Berezhnoy, E. Postma and J. van den Herik: <i>Digital analysis of Van Gogh's complementary colours</i>	N. Niekboer, E. Postma and J. van den Herik: <i>A context-based model of attention</i>
11:15 - 11:35	<b>Break</b>		
11:35 - 12:25	<b>Paper presentations: Session 5</b>		
	Session 5A: <i>Auditorium</i> <b>Information Retrieval</b>	Session 5B: <i>Conference Room 1</i> <b>Pattern Recognition</b>	Session 5C: <i>Conference Room 2</i> <b>Robotics</b>
	S. Schlobach, M. Olsthoorn and M. de Rijke: <i>Type Checking in Open-Domain Question Answering</i>	M. Bulacu and L. Schomaker: <i>Analysis of texture and connected-component contours for the automatic identification of writers</i>	M. van Dartel, E. Postma and J. van den Herik: <i>Categorisation through Internal Simulation of Perception and Behaviour</i>
	J. Kamps, M. de Rijke and B. Sigurbjörnsson: <i>Length Normalization in XML Retrieval</i>	D.M.J. Tax: <i>Regularizing the Covariance Matrix Using Spatial Information</i>	W. Zajdel, A. Taylan Cemgil and B.J.A. Kröse: <i>Online Multicamera Tracking with a Switching State-Space Model</i>
12:25 - 14:05	<b>Lunch and BNVKI general assembly</b>		
14:05 - 15:20	<b>Paper presentations: Session 6</b>		
	Session 6 : <i>Auditorium</i> <b>Agents III</b>	Session 6B: <i>Conference Room 1</i> <b>Machine Learning IV</b>	Session 6C: <i>Conference Room 2</i> <b>AI in Law and Medicine</b>
	J.-J. Ch. Meyer: <i>Reasoning about Emotional Agents</i>	S. Raeymaekers and M. Bruynooghe: <i>Parameterless Information Extraction Using (k,l)-Contextual Tree Languages</i>	L. Xu and M.A. Jeusfeld: <i>Proactive Monitoring of Electronic Contracts</i>
	J. Broekens and D. DeGroot: <i>Emotional Agents need Formal Models of Emotion</i>	A. van den Bosch: <i>Wrapped Progressive Sampling Search for Optimizing Learning Algorithm Parameters</i>	P.L. Geenen, L.C. van der Gaag, A.R.W. Elbers and W.L.A. Loeffen: <i>Building Naive Bayesian Classifiers from Literature: a Case Study in Classical Swine Fever</i>
	N. Roos and C. Witteveen: <i>Plan Diagnosis with Agents</i>	E.D. de Jong and D. Thierens: <i>Exploiting Modularity, Hierarchy, and Repetition in Variable-Length Problems</i>	A. Hommersom, P. Lucas and M. Balsler: <i>Logic and the Quality of Medical Guidelines</i>
15:20 - 15:40	<b>Break</b>		
15:40 - 16:55	<b>Paper presentations: Session 7</b>		
	Session 7A: <i>Auditorium</i> <b>Games</b>	Session 7B: <i>Conference Room 1</i> <b>Knowledge Technology and Uncertainty</b>	
	K.J. Batenburg and W.A. Kusters: <i>A Discrete Tomography Approach to Japanese Puzzles</i>	J.H. Bolt and L.C. van der Gaag: <i>On the Convergence Error in Loopy Propagation</i>	
	H.-J. Lebbink, C. Witteman and J.-J. Meyer: <i>A Dialogue Game Approach to Multi-Agent System Programming</i>	P. Groot, A. ten Teije and F. van Harmelen: <i>Towards a Structured Analysis of Approximate Problem Solving: a Case Study in Classification</i>	
	H.W. de Haan, W.H. Hesselink and G.R. Renardel de Lavalette: <i>An abstract multi-agent framework applied to a social interaction game</i>	S. Renooij: <i>Forecast Verification and the Uncertain Truth</i>	
16:55 - 17:10	<b>Award ceremony and closing</b> ( <i>Auditorium</i> ) - Elsevier Best Paper Award for the best original paper - SKBS Prize for the best demo/application		

## Overview of Poster presentations:

- F. Roelofsen and L. Serafini: *Complexity of Contextual Reasoning*
- M. Hoogendoorn, C.M. Jonker, M. Schut and J. Treur: *Modelling the Organisation of Organisational Change*
- T. Bosse, C.M. Jonker and J. Treur: *Experiments in Human Multi-Issue Negotiation: Analysis and Support*
- R. Knauf, A. Spreuwenberg, R. Gerrits and M. Jendreck: *A Step out of the Ivory Tower: Experiences with Adapting a Test Case Generation Idea to Business Rules*
- C.M. Jonker, J. Treur and P. Yolum: *A Formal Reuse-Based Approach for Interactively Designing Organizations*
- C.M. Jonker, M. Schut, J. Treur and P. Yolum: *Formal Analysis of Meeting Protocols*
- W. Teepe: *New Protocols for Proving Knowledge of Arbitrary Secrets While not Giving Them Away*
- A. Shapanskykh: *The problems of automated distance learning systems community formation*
- A. Ypma and T. Heskes: *Novel approximations for inference and learning in nonlinear dynamical systems*
- T. Bosse, C.M. Jonker, M. Schut and J. Treur: *Simulation and Analysis of Shared Extended Mind*
- T. Heskes, O. Zoeter and W. Wiegerinck: *Approximate Expectation Maximization*
- O. Zoeter, A. Ypma and T. Heskes: *Improved Unscented Kalman smoothing for stock volatility estimation*
- S. Malki, L. Spaanenburg and N. Ray: *Image Stream Processing on a Packet-Switched Discrete-Time CNN*
- J. Broekstra, M. Ehrig, P. Haase, F. van Harmelen, M. Menken, P. Miks, B. Schnizler and R. Siebes: *Bibster - A Semantics-Based Bibliographic Peer-to-Peer System*
- G. Infante-Lopez and M. de Rijke: *Alternative Approaches for Generating Bodies of Grammar Rules*
- F.M.T. Brazier, D.R.A. de Groot, A. Oskamp and N.J.E. Wijngaards: *Agent-Based Information Retrieval: Legal and Technical Considerations in a Simple Case*
- M. B. van Riemsdijk, M. Dastani, F. Dignum and J.-J. Ch. Meyer: *Dynamics of Declarative Goals in Agent Programming*
- B. Bakker: *Hierarchical Reinforcement Learning Based on Subgoal Discovery and Subpolicy Specialization*
- B. Jansen, T. ten Thij, T. Belpaeme, B. De Vylder and B. de Boer: *Imitation in embodied agents results in self-organization of behavior*
- A. Van Assche, C. Vens and H. Blockeel: *A Random Forest Approach to Relational Learning*
- H. Abbink et. al.: *Automated support for adaptive incident management*
- S. van Splunter, N. Wijngaards, F. Brazier and D. Richards: *Automated Component-Based Configuration: Promises and Fallacies*
- J.J. Sarbo: *Towards a new world-ontology*
- F. de Jonge, N. Roos and J. van den Herik: *Multi-agent Plan-execution Health Repair*
- L.J.M. Rothkrantz, P. Wiggers, F. Flippo, D.Woei-A-Jin and R.J. van Vark: *Multimodal Dialog Management*
- B. Tatomir, H. Dibowski and L. Rothkrantz: *Hierarchical routing in traffic networks*
- K. Boer, M. Polman, A. de Bruin and U. Kaymak: *An Agent-Based Framework for Artificial Stock Markets*
- A.W.A. Spek and H.J. van den Herik: *AI support by Intelligent Documents*
- J. Broekens, N. Netten and D. DeGroot: *Consistent Dynamic-Group Emotions for Virtual Characters*
- J. De Beule: *Creating Temporal Categories for an Ontology of Time*
- P.A.N. Bosman and T. Alderliesten: *Bringing IDEAs into practice: optimization in a minimally invasive vascular intervention simulation system*
- Th.M. Hupkens and R. Thaens: *A Multi Agent System for MS Windows using Matlab-enabled Agents*
- R. Jurgelenaite and P. Lucas: *Parameter Estimation in Large Causal Independence Models*

## Overview of Demonstration presentations:

- W. Teepe: *The Secret Prover: Proving Possession of Arbitrary Files While not Giving Them Away*
- C. Jonker, L. v.d.Meij, V. Robu and J. Treur: *Demonstration of a Software System for Automated Multi-Attribute Negotiation*
- P.J. 't Hoen, G. Redekar, V. Robu and J.A. La Poutré: *Visualization of a Market-based Model for Logistics Management in Transportation*
- S. Meijer and T. Verwaart: *Demonstration of a Multi-Agent Simulation Model of Trust in Supply Chains*
- R.J. Grootjans, R. Zwitsersloot and M. Pantic: *An agent framework for teaching an introductory course in AI*
- T. Mahr and M. de Weerd: *Distributed Agent Platform for Advanced Logistics*
- M. Valstar, M. Pantic and I. Patras: *Facial Action Unit Recognition using Temporal Templates and Particle Filtering with Factorized Likelihoods*
- R.C. Sondak, P. Gaia, L.M. Maat, M. Pantic and M.F. Valstar: *MMI Face Database*
- M. Israël, E.L. van den Broek, P. van der Putten and M.J. den Uyl: *Real time automatic scene classification*