

Thursday, November 10th, 2016

08.00-09.00 Registration

08.45-09.00 Opening (room 3/4)

09.00-09.45 Invited talk 1 (room 3/4) (chair: Bert Bredeweg)

- Marc Cavazza (University of Kent) – *Interactive Narratives: from Plans to User Experience*

10.00-11.00 Parallel paper sessions

Paper session 1 – Agents (interaction) (room 1) (chair: Virginia Dignum)

- Franziska Burger, Joost Broekens and Mark A. Neerincx – *Agents Sharing Secrets*
- Laura van der Lubbe, Jan Treur and Willeke van Vught – *Modeling Internalizing an Externalizing Behaviour in Autism Spectrum Disorders*
- Pietro Pasotti, M. Birna van Riemsdijk and Catholijn M. Jonker – *Habit formation and breaking: a support agent design as an extended mind*

Paper session 2 – Natural Language (room 2) (chair: Tom Kenter)

- Kolawole Adebayo, Luigi Di Caro, Livio Robaldo and Guido Boella – *Textual Inference with Deep Learning Technique*
- Mark Hoogendoorn, Peter Szolovits, Leon Moons and Mattijs Numans – *Utilizing uncoded consultation notes from electronic medical records for predictive modeling of colorectal cancer*
- Stéphan Tulkens, Simon Suster and Walter Daelemans – *Using Distributed Representations to Disambiguate Biomedical and Clinical Concepts*

Paper session 3 – Machine Learning (deep) (room 3/4) (chair: Kurt Driessens)

- Decebal Constantin Mocanu, Elena Mocanu, Phuong H. Nguyen, Madeleine Gibescu and Antonio Liotta – *A topological insight into restricted Boltzmann machines*
- Hossam Mossalam – *Multi-objective Deep Reinforcement Learning with Optimistic Linear Support*
- Elise van der Pol – *Deep Reinforcement Learning for Coordination in Traffic Light Control*

11.00-11.30 Coffee break

11.30-12.30 Parallel paper sessions

Paper session 4 – Agents (argumentation) (room 1) (chair: Johan Kwisthout)

- Stéphanie Airiau, Elise Bonzon, Ulle Endriss, Nicolas Maudet and Julien Rossit – *Rationalisation of Profiles of Abstract Argumentation Frameworks*
- Diana Grooters and Henry Prakken – *Two Aspects of Relevance in Structured Argumentation: Minimality and Paraconsistency*
- Luis Martinez Vaquero, The Anh Han, Luís Moniz Pereira and Tom Lenaerts – *Apology and forgiveness evolve to resolve failures in cooperative agreements*

Paper session 5 – Search (room 2) (chair: Jaap van den Herik)

- Dennis J. N. J. Soemers, Chiara F. Sironi, Torsten Schuster and Mark H. M. Winands – *Enhancements for Real-Time Monte-Carlo Tree Search in General Video Game Playing*
- Janis Griebel and Jos Uiterwijk – *Combining Combinatorial Game Theory with an alpha-beta Solver for Clobber*
- Hilbert Kappen and Hans Ruiz – *Adaptive importance sampling for control and inference*

Paper session 6 – Machine Learning (causality) (room 3/4) (chair: Marco Wiering)

- Nicolai Meinshausen, Alain Hauser, Joris Mooij, Jonas Peters, Philip Versteeg and Peter Buhlmann – *Methods for causal inference from gene perturbation experiments and validation*
- Romy Blankendaal, Sarah Parinussa and Jan Treur – *A Temporal-Causal Modelling Approach to Integrated Contagion and Network Change in Social Networks*
- Muriël Hol and Aysenur Bilgin – *A Fuzzy Logic Approach for Anomaly Detection in Energy Consumption Data*

12.30-13.30 Lunch break + Posters (Erasmus area)

- Tibor Bosse, Charlotte Gerritsen and Jeroen de Man – *An Intelligent System for Aggression De-escalation Training*
- Ward van Breda, Johnno Pastor, Mark Hoogendoorn, Jeroen Ruwaard, Joost Asselbergs and Heleen Riper – *Exploring and Comparing Machine Learning Approaches for Predicting Mood over Time*
- Estelle Doriot and Jan Broersen – *Grades of Responsibility*
- Floris Den Hengst and Mark Hoogendoorn – *Detecting Interesting Outliers*
- Filip Ilievski, Wouter Beek, Marieke Van Erp, Laurens Rietveld and Stefan Schlobach – *LOTUS: Adaptive Search for Big Linked Data*

- Christiaan Leysen, Mathias Verbeke, Pierre Dagnely and Wannes Meert – *Energy consumption profiling using Gaussian Processes*
- Jenny Margarito, Rim Helaoui, Anna M. Bianchi, Francesco Sartor and Alberto G. Bonomi – *User-Independent Recognition of Sports Activities From a Single Wrist-Worn Accelerometer: A Template-Matching-Based Approach*
- Lenin Medeiros and Tibor Bosse – *Empirical Analysis of Social Support Provided via Social Media*
- Thomas M. Moerland, Joost Broekens and Catholijn M. Jonker – *Hope and Fear in Reinforcement Learning Agents: Extended Abstract*
- Klara Pigmans, Huib Aldewereld, Neelke Doorn and Virginia Dignum – *The Role of Values*
- Marten Schutten and Marco Wiering – *An Analysis on Better Testing than Training Performances on the Iris Dataset*
- Paul Verhaar and Maya Sappelli – *Radical Reddits - Into the mind of online Radicalised Communities*
- Shuai Wang – *ProofCloud: A Proof Retrieval Engine for Verified Proofs in Higher Order Logic*

13.30-14.30 NWO - open access (room 3/4)

- Moderator
 - Hilde van Wijngaarden (University of Amsterdam / Amsterdam University of Applied Sciences)
- Panelists
 - Rinke Hoekstra (Vrije Universiteit Amsterdam)
 - Maarten Fröhlich (IOS Press)
 - Bernard Aleva (Elsevier)

14.30-15.15 Invited talk 2 (room 3/4) (chair: Arnoud Visser)

- Manuela Veloso (Carnegie Mellon University) – *Autonomous Intelligent Service Robots: Learning and Explanations in Human-Robot Interaction*

15.15-15.30 Coffee break

15.30-17.10 Parallel paper sessions

Paper session 7 – Agents (cooperation) (room 1) (chair: Ulle Endriss)

- Jieting Luo, John-Jules Meyer and Max Knobbout – *Monitoring Opportunism in Multi-Agent Systems*
- Joost Batenburg, Leon Helwerda, Walter Kusters and Tim van der Meij – *Agents for Mobile Radio Tomography*
- Rijk Mercur, Frank Dignum and Yoshihisa Kashima – *Interventions On Contextualized Decision Making: an Agent Based Simulation Study*
- Chris Rozemuller, Koen Hindriks and Mark Neerinx – *On the Need for a Coordination Mechanism to Guarantee Task Completion in a Cooperative Team*
- Joris Scharpff, Diederik M. Roijers, Frans Oliehoek, Matthijs T. J. Spaan and Mathijs De Weerd – *Conditional Return Policy Search for TI-MMDPs with Sparse Interactions*

Paper session 8 – Agents (adaptation) (room 2) (chair: Mark Hoogendoorn)

- Armon Toubman, Jan Joris Roessingh, Pieter Spronck, Aske Plaat and H. Jaap Van den Herik – *Rapid Adaptation of Air Combat Behaviour*
- Gleb Polevoy, Mathijs de Weerd and Catholijn Jonker – *The Game of Reciprocation Habits*
- Sophie Van der Woerd and Willem F.G. Haselager – *Lack of effort or lack of ability? Robot failures and human perception of agency and responsibility*
- Harmen de Weerd, Denny Diepgrond and Rineke Verbrugge – *Estimating the use of higher-order theory of mind using computational agents*
- Vincent Jaco Koeman, Koen Victor Hindriks and Catholijn Maria Jonker – *Automating Failure Detection in Cognitive Agent Programs*

Paper session 9 – Machine Learning (data) (room 3/4) (chair: Jos Uiterwijk)

- Damien Lejeune and Kurt Driessens – *A Data Driven Similarity Measure and Example Mapping Function for General, Unlabelled Data Sets*
- Siamak Mehrkanoon, Oscar Mauricio Agudelo and Johan A.K. Suykens – *Incremental multi-class semi-supervised clustering regularized by Kalman filtering*
- Friedrich Melchert, Udo Seiffert and Michael Biehl – *Functional Representation of Prototypes in LVQ and Relevance Learning*
- Pepijn van Diepen and Bert Bredeweg – *Performance Indicators for Online Geography in Secondary Education*
- Rik van Noord, Florian Kunneman and Antal van den Bosch – *Predicting civil unrest by categorizing Dutch Twitter events*

17.15-18.00 Awards ceremony & BNVKI general assembly (room 3/4)

19.30-22.00 Conference dinner (on the boat)

Friday, November 11th, 2016

08.30-09.30 Registration

09.30-10.15 Invited talk 3 (room 3/4) (chair: Tibor Bosse)

- Frank van Harmelen (Vrije Universiteit Amsterdam) – *Very (VERY) Large-Scale Knowledge Representation*

10.15-10.45 Coffee break

10.15-12.30 Demonstrations (room 1/2)

- Katrien Beuls, Paul Van Eecke and Luc Steels – *A Library of Meta-Level Diagnostics and Repairs for Fluid Construction Grammar*
- Tessel Bogaard, Jan Wielemaker, Laura Hollink and Jacco van Ossenbruggen – *SWISH DataLab: a web interface for data exploration and analysis*
- Quincy Dalh, Can Lokman and Kishan Nirghin – *Tinkr*
- Koen Hindriks, Joost Broekens and Joachim De Greeff – *RoboTutor: A Robotic Teaching Assistant*
- Laura Hollink and Adriatik Bedjeti – *ION Demonstrator: an interactive exploration of a multimodal news corpus*
- Caitlin Lagrand, Patrick M. de Kok, Sébastien Negrijn, Michiel van der Meer and Arnoud Visser – *Autonomous robot soccer matches*
- Elise van der Pol and Frans A. Oliehoek – *Video Demo: Deep Reinforcement Learning for Coordination in Traffic Light Control*
- María Dolores Sánchez-García, José Del Sagrado, Antonio Salmerón and Rafael Rumí – *PGMs4SDA: a public repository for Probabilistic Graphical Models*
- Benjamin Timmermans, Zoltán Szilávik and Robert-Jan Sips – *Crowdsourcing ground truth data for analysing brainstem tumors in children*
- Shuai Wang, Steve Tonneau and Nicolas Mansard – *Multi-agent Multi-contact Path Planning with HPP*
- Arlette Van Wissen, Annerieke Heuvelink, Cliff Laschet and Charlotte Vinkers – *Dynamic, context-aware behavior change support using distributed reasoning and central processing*

10.45-11.45 Parallel paper sessions

Paper session 10 – Knowledge Representation (room 3) (chair: Joost Vennekens)

- Wouter Beek, Stefan Schlobach and Frank Van Harmelen – *A Contextualised Semantics for owl:sameAs*
- Giovanni Casini and Thomas Meyer – *Using Defeasible Information to Obtain Coherence*
- Veruska Zamborlini, Rinke Hoekstra, Marcos Da Silveira, Cédric Pruski, Annette Ten Teije and Frank Van Harmelen – *Generalizing the Detection of Internal and External Interactions in Clinical Guidelines*

Paper session 11 – Machine Learning (other) (room 4) (chair: Evert Haasdijk)

- Peter Bloem and Steven De Rooij – *Two problems for sophistication*
- Kerstin Borggrewe and Jan Scholtes – *A Domain-Independent Method for Entity Resolution by determining Textual Similarities with a Support Vector Machine*
- Joost van Doorn, Daan Odijk, Diederik M. Roijers and Maarten de Rijke – *Multi-Objective Optimization for Information Retrieval*

11.45-12.25 Parallel paper sessions

Paper session 12 – Optimisation (room 3) (chair: John-Jules Meyer)

- Georgios Methenitis, Michael Kaisers and Han La Poutré – *Incentivizing Intelligent Customer Behavior in Smart-Grids: A Risk-Sharing Tariff & Optimal Strategies*
- Qing Chuan Ye, Yingqian Zhang and Rommert Dekker – *Fair task allocation in transportation*

Paper session 13 – Reflections (room 4) (chair: Bart Verheij)

- Johan Kwisthout – *What can the PGM community contribute to the 'Bayesian Brain' hypothesis?*
- Max Knobbout, Mehdi Dastani and John-Jules Meyer – *A Dynamic Logic of Norm Change*

12.30-13.30 Lunch break + Posters (Erasmus area)

- Cesare Bartolini, Lenzini Gabriele and Livio Robaldo – *Towards legal compliance by correlating Standards and Laws with a semi-automated methodology*
- Mark van den Bergh, Walter Kosters and Flora Spieksma – *Aspects of the cooperative card game Hanabi*
- Daniel Formolo and Tibor Bosse – *A Conversational Agent that Reacts to Vocal Signals*
- Evert Haasdijk – *Combining Conflicting Environmental and Task Requirements in Evolutionary Robotics*
- Qing Hu, Zhisheng Huang, Annette Ten Teije and Frank Van Harmelen – *A Topic-centric Approach to Detecting New Evidences for Evidence-based Medical Guidelines*
- Jonathan Maas, Emmanuel Okafor and Marco Wiering – *The Dual Codebook: Combining Bags of Visual Words in Image Classification*

- Yaroslav Shkarupa, Roberts Mencis and Matthia Sabatelli – *Offline Handwriting Recognition Using LSTM Recurrent Neural Networks*
- Jan Treur – *Network-Oriented Modeling and its Conceptual Foundations*
- Joost Vennekens – *Solving the Travelling Umpire Problem with Answer Set Programming*
- Bart Verheij, Floris Bex, Sjoerd T. Timmer, Charlotte S. Vlek, John-Jules Ch. Meyer, Silja Renooij and Henry Prakken – *Arguments, Scenarios and Probabilities: Connections between Three Normative Frameworks for Evidential Reasoning*
- Anouk Visser – *Content-Aware Image Resizing to improve the Object Detection rate in Aerial Imagery*
- Shuai Wang – *Reasoner-Aid Research: Potentials and Popularity*
- Chao Zhang, Arlette van Wissen, Daniël Lakens, Joaquin Vanschoren, Boris de Ruyter and Wijnand Ijsselstein – *Anticipating Habit Formation: A Psychological Computing Approach to Behavior Change Support*

13.30-14.15 Invited talk 4 (room 3/4) (chair: Natalie van der Wal)

- Hado van Hasselt (Google DeepMind) – *Deep reinforcement learning*

14.15-14.30 Coffee break

14.30-16.30 Research to Business (special session) (room 2)

- Limited number of places (by invitation only)

14.30-15.30 Societal Aspects of Human-Robot Interaction (room 3/4)

- Moderator
 - Peter Novitzky (University of Twente)
- Panelists
 - Elly Konijn (Vrije Universiteit Amsterdam)
 - Ben Kröse (University of Amsterdam / Amsterdam University of Applied Sciences)
 - Mark Neerinx (TNO Soesterberg / Delft University of Technology)

15.30-16.30 FACT-talk (room 3/4) (chairs: Bart Verheij and Tom Lenaerts)

- Speakers:
 - Catholijn Jonker (Delft University of Technology) – *Shared Leadership & control in Human-Agent-Robot Teamwork*
 - Leon van der Torre (University of Luxembourg) – *If you want to let me in, you should open the pod bay doors, HAL*
 - Bart de Boer (Vrije Universiteit Brussel) – *Modeling evolution of language: how AI answers “questions we will never answer”*

16.30-17.00 Closing session (including Best demo award ceremony) (room 3/4)