8:30 – 9:00   REGISTRATION (Ground floor)

9:00 – 9:10   OPENING DAY 1 (Congreszaal)

9:10 – 10:30   PAPER SESSIONS

MACHINE LEARNING (Congreszaal)

Claudio Reggiani, Yann-Aël Le Borgne and Gianluca Bontempi
        Feature selection in high-dimensional dataset using MapReduce
Dirk van der Hoeven and Tim van Erven
        Is Exponenential Weights a Special Case of Mirror Descent
Siamak Mehrkanoon and Johan A.K. Suykens
        Regularized Semi-Paired Kernel CCA for Domain Adaptation
Lynn Houthuys, Zahra Karevan and Johan A. K. Suykens
        Multi-View LS-SVM for Temperature Prediction

AGENT SYSTEMS (Room 1.04)

Linford Goedschalk, Tibor Bosse and Marco Otte
        Get Your Virtual Hands Off Me! - Developing Threatening Agents Using
        Haptic Feedback
Vincent Jaco Koeman, Koen Hindriks and Catholijn Jonker
        Omniscient Debugging for Cognitive Agent Programs
Lenin Medeiros and Tibor Bosse
        An Empathic Agent that Alleviates Stress by Providing Support via
        Social Media
Mike Ligthart, Olivier Blanson Henkemans, Koen Hindriks and Mark Neerincx
        Expectation Management in Child-Robot Interaction

NATURAL LANGUAGE PROCESSING (Room 1.12)

Mathijs Pieters and Marco Wiering
        Comparison of Machine Learning Techniques for Multi-label Genre
        Classification
Verna Dankers, Aysenur Bilgin and Raquel Fernández
        Modelling the Generation and Retrieval of Word Associations with
        Word Embeddings
Verna Dankers, Aysenur Bilgin and Raquel Fernández
        Modelling Word Associations and Interactiveness for Describer Agents
        in Word-Guessing Games
Nikita Galinkin, Zoltán Szlávik, Lora Aroyo and Benjamin Timmermans
        Catch Them If You Can: Malicious Behavior Simulation in Deep
        Question Answering

10:30 – 11:00 COFFEE/TEA (Grand Café)

11:00 – 12:00 KEYNOTE LECTURE (Congreszaal)

Rineke Verbrugge
Recursive Theory of Mind: Between Logic and Cognition

12:00 – 13:00 LUNCH (Grand Café)

KION MEETING (Room 1.04)

13:00 – 14:00 PAPER SESSIONS

REINFORCEMENT LEARNING (Congreszaal)

Nico Roos
Learning-based diagnosis and repair
Paul Ozkohen, Jelle Visser, Martijn van Otterlo and Marco Wiering
Learning to Play Donkey Kong Using Neural Networks and
Reinforcement Learning
Thomas M. Moerland, Joost Broekens and Catholijn M. Jonker
Learning Multimodal Transition Dynamics for Model-Based
Reinforcement Learning

AGENT SYSTEMS (Room 1.04)

Bram Wiggers and Harmen de Weerd
The origin of mimicry: Deception or merely coincidence?
Daniel Formolo and C. Natalie Van Der Wal
Simulating Collective Evacuations with Social Elements
Jens Nevens and Katrien Beuls
The Effect of Tutor Feedback in Language Acquisition Models

UNCERTAINTY IN AI (Room 1.12)

Remi Wieten, Floris Bex, Linda van der Gaag, Silja Renooij and Henry Prakken
Refining a Heuristic for Constructing Bayesian Networks from
Structured Arguments
Johan Kwisthout
The Parameterized Complexity of Approximate Inference in Bayesian
Networks
Sander Beckers and Joost Vennekens
The Transitivity and Asymmetry of Actual Causation

14:00 – 14:15 COFFEE/TEA (Grand Café)

14:15 – 16:00

NVIDIA DEEP LEARNING WORKSHOP (Room 1.04)

IPN SIG AI MEETING (Room 1.12)

DEMONSTRATIONS (Rooms 1.08 and 1.09, Central hall 1st floor)

Denis Steckelmacher, Hélène Plisnier, Diederik M. Roijers and Ann Nowé
    Hierarchical Reinforcement Learning for a Robotic Partially Observable Task
*Peter Vamplew, Dean Webb, Luisa M Zintgraf, Diederik M. Roijers, Richard Dazeley,
    Rustam Issabekov and Evan Dekker*
    MORL-Glue: A Benchmark Suite for Multi-Objective Reinforcement Learning
Tijn van der Zant
    RoboCup HQ: A new benchmark focusing on AI, HMI and Autonomous Agents
Manon Legrand, Roxana Radulescu, Diederik M. Roijers and Ann Nowé
    The SimuLane Highway Traffic Simulator for Multi-Agent Reinforcement
    Learning
Benjamin Timmermans, Zoltán Szlávik, Manfred Overmeen and Alessandro Bozzon
    ECrowd: Enterprise Crowdsourcing for Training Cognitive Systems using the
    Workforce
Jonathan Gerbscheid, Thomas Groot and Arnoud Visser
    Intelligent News Conversation with the Pepper Robot

POSTERS (Central hall 1st floor)

Diego Alvarez-Estevez and Vicente Moret-Bonillo
    A Proposal to Solve Rule Conflicts in the Wang-Mendel Algorithm for Fuzzy
    Classification Using Evidential Theory
William Kos, Marijn Schraagen, Matthieu Brinkhuis and Floris Bex
    Classification in a Skewed Online Trade Fraud Complaint Corpus
Laura van der Lubbe and Tibor Bosse
    Studying Gender Bias and Social Backlash via Simulated Negotiations with
    Virtual Agents
Marjolein Troost, Katja Seeliger and Marcel van Gerven
    Generalization of an Upper Bound on the Number of Nodes Needed to
    Achieve Linear Separability in Two-Layer Neural Networks
Kim Veltman, Harmen de Weerd and Rineke Verbrugge
    Socially smart software agents entice people to use higher-order theory of
    mind in the Mod game
Elie Merhej, Steven Schockaert, T. Greg McKelvey and Martine De Cock
    Recommending Treatments for Comorbid Patients Using Word-Based and
    Phrase-Based Alignment Methods
Davide Dell'Anna, Mehdi Dastani and Fabiano Dalpiaz
    Reasoning about Norms Revision
Jerome Renaux, Jan Ramon and Andrea Argentin
    I A Hierarchical Bayesian Network for the Optimization of SRM Assays

Max van de Westelaken
    Agent-based Model of Crowd Shipping
Hendrik Vincent Koops, W. Bas de Haas, Jeroen Bransen and Anja Volk
    Chord Label Personalization through Deep Learning of Integrated Harmonic
    Interval-based Representations
John Bruntse Larsen and Jørgen Villadsen
    An Approach for Hospital Planning with Multi-Agent Organizations
David Stap, Bert Bredeweg and Natasa Brouwer
    Gamification for Learning by Modelling in Interactive Learning Environments

16:00 – 16:15 COFFEE/TEA (Grand Café)

16:15 – 17:15 KEYNOTE LECTURE (Congreszaal)

Luc Steels
Digital Replicants and Mind-Uploading

17:45   SOCIAL EVENT: VISIT MARTINITOREN (Martinikerkhof 3)

19:00   CONFERENCE DINNER ('t Feithhuys, Martinikerkhof 10)

8:30 – 9:00   REGISTRATION (Ground floor)

9:10 – 10:30   PAPER SESSIONS

GAMES (Congreszaal)

Gleb Polevoy and Mathijs de Weerdt
        Competition between Cooperative Projects
Gleb Polevoy and Mathijs de Weerdt
        Reciprocation Effort Games
Elias Fernández Domingos, Juan Carlos Burguillo and Tom Lenaerts
        Reactive Versus Anticipative Decision Making in a Novel Gift-Giving Game
Qing Chuan Ye and Yingqian Zhang
        Participation Behavior and Social Welfare in Repeated Task Allocations

KNOWLEDGE & REASONING (Room 1.04)

Zhisheng Huang, Jie Yang, Frank Van Harmelen and Qing Hu
        Constructing Knowledge Graphs of Depression
Rijk Mercuur, Virginia Dignum and Catholijn Jonker
        Using Values and Norms to Model Realistic Social Agents
Neil Yorke-Smith
        Evaluating Intelligent Knowledge Systems
Henry Prakken
        On the Problem of Making Autonomous Vehicles Conform to Traffic Law

MACHINE LEARNING (Room 1.12)

David Roschewitz, Kurt Driessens and Pieter Collins
        Simultaneous Ensemble Generation and Hyperparameter Optimization for
        Regression
Marieke van Vugt, Armin Brandt and Andreas Schulze-Bonhage
        Tracking Perceptual and Memory Decisions by Decoding Brain Activity
*Dimitrios Bountouridis, Dan Brown, Hendrik Vincent Koops, Frans Wiering and Remco
        C. Veltkamp*
        Melody Retrieval and Classification Using Biologically-Inspired Techniques
Mostafa Dehghani and Jaap Kamps
        Neural Ranking Models with Weak Supervision

10:30 – 11:00 COFFEE/TEA (Grand Café)

11:00 – 12:00 KEYNOTE LECTURE (Congreszaal)

Marco Dorigo
Swarm Robotics: Current Research Directions at IRIDIA

12:00 – 13:00 LUNCH (Grand Café)

13:00 – 14:00 FACT TALKS – FACULTY FOCUSING ON THE FACTS OF ARTIFICIAL INTELLIGENCE
(Congreszaal)

Bert Bredeweg
Humanly AI: Creating smart people with AI

Eric Postma
Towards Artificial Human-like Intelligence

Geraint Wiggins
Introducing Computational Creativity

14:00 – 14:15 COFFEE/TEA (Grand Café)

14:15 – 15:45

BNVKI GENERAL ASSEMBLY (Congreszaal)

RESEARCH & BUSINESS SESSION (Room 1.04)

NVIDIA – *Guillaume Barat*
Target Holding – *Jean-Paul van Oosten*
Anchormen – *Arjen van Wijngaarden*
Sim-CI – *Tijn van der Zant*
Panel discussion

POSTERS (Central hall 1st floor)

Jonathan Hogervorst, Emmanuel Okafor and Marco Wiering
Deep Colorization for Facial Gender Recognition
Henry Maathuis, Luuk Boulogne, Marco Wiering and Alef Sterk
Predicting Chaotic Time Series using Machine Learning Techniques
Daphne Lenders and Willem Haselager
'Well, at least it tried' The Role of Intentions and Outcomes in Ethically
Evaluating Robot Actions

Manon Legrand, Roxana Radulescu, Diederik M. Roijers and Ann Nowé
　　　　Neural Network Reuse in Deep RL for Autonomous Vehicles among Human
　　　　Drivers
Robin Manhaeve
　　　　Realtime Road User Detection with Single Pass Deep Learning
Marten Schutten, Marco Wiering and Pamela MacDougall
　　　　Balancing Imbalances
Jesse Bakker, Wouter Beek and Erwin Folmer
　　　　Should you link(ed) data?
Michiel Van Lancker, Annemie Vorstermans and Mathias Verbeke
　　　　Customer Profiling based on Electronic Payment Transaction Data
Sébastien Hoorens, Katrien Beuls and Paul Van Eecke
　　　　Constructions at Work! Visualising Linguistic Pathways for Computational
　　　　Construction Grammar
Stefan Huijser, Niels Taatgen and Marieke van Vugt
　　　　Distracted in a Demanding Task: A Classification Study with Artificial Neural
　　　　Networks
Marco Stam, Charlotte Gerritsen, Ward van Breda and Elias Krainsk
　　　　l Assessing the Spatiotemporal Relation between Twitter Data and Violent
　　　　Crime
Florian Wimmenauer, Evgueni Smirnov and Matus Mihalak
　　　　Distribution-driven Regression Ensemble Construction for Time Series
　　　　Forecasting

15:45 – 16:00 COFFEE/TEA (Grand Café)

16:00 – 17:00 KEYNOTE LECTURE (Congreszaal)

Laurens van der Maaten
From Visual Recognition to Visual Understanding

17:00 – 17:30 CLOSING: AWARDS, BNAIC 2018 (Congreszaal)