

08:30

## WELCOME COFFEE & NETWORKING

09:00

**How to start your AI project**  
Philippe Van Impe - DigitYser

keynote

09:30

**AI strategy & policy in Belgium: overview of the different regional and national initiatives**  
Ferdinand Casier - Agoria

**A Big Data Platform for Mobility Data**  
Tias Guns - VUB & Giovanni Buroni - ULB

10:00

**NextGen AI enabled Contact Center Virtualization and Harmonization**  
Reiner Bruns - Cognitive Affairs

**TICKLE: A Playful Mobile Digital Environment to Raise Learning Engagement**  
Jan Maushagen - VUB

10:30

## COFFEE BREAK

11:00

**Fear of missing out? Studying AI in Flanders**  
Johan Loeckx - Artificial Intelligence Lab (VUB)

**Using machine learning in the quest for understanding oligogenic diseases**  
Sofia Papadimitriou - ULB

11:30

**Embedding trust in AI by design to deliver AI insights**  
Patrice Latinne - EY Belgium

**Towards the next generation of smart and visual multimodal sensor networks**  
Feras Almasri - ULB

12:00

## LUNCH & NETWORKING

13:00

**Demystifying the current state of AI**  
Deevid De Meyer - Brainjar

**MutaFrame: Identifying molecular causes of human diseases**  
Wim Vranken - VUB

13:30

**The future of intelligent automation**  
Arnout De Vis - RoboRana NV

**Crowd forecasting based on LSTM neural networks**  
Utkarsh Singh - ULB

14:00

**Liability and Risk: Why Explanability & Ethical AI Should Matter to Industry**  
Rachel Alexander - Omina Technologies

**Driving Collective Data Governance through Smart Engagement Platforms**  
Pieter De Leenheer & Vicky Froyen - Collibra

14:30

## COFFEE BREAK

15:00

**How AI can help your company develop**  
Nathan Bijmens - Microsoft

**EB CHARGING OPTIMISER: Optimising charging schedules of Electric Vehicles through Reinforcement Learning**  
Romain Hollanders - Energis & Arno Moonens - VUB

15:30

**SmartCampus: a new Integrated Platform to boost innovation in Smart Data Insights**  
Claudio Truzzi - ULB

**INTiMALS - INTelligent Modernisation Assistance for Legacy Software**  
Celine Deknop - UCLouvain

16:00

**How can we use AI to extract metadata properties**  
Bas Roelenga - Target Holding

**An AI and deep learning use case: Identifying populations more likely to have diseases like tuberculosis**  
Xavier Morelle - Savics

16:30

**The required steps to successful industrialization of machine learning models**  
Jan van der Vegt - Cubonacchi

**Preference learning for sustainable freight transport planning**  
Canoy Rocslides - VUB, Data Analytics Team

17:00

## CLOSING

18:30

## MEMES, PAINTINGS AND AI (BOZAR)

# DAY 2

## PETITS SALONS

LEVEL 0

**HALLE VITRÉE**  
LEVEL 0

**GAMAY ROOM**  
LEVEL +1

**SYRAH ROOM**  
LEVEL +1

**HALLE AUX FÛTS**  
LEVEL 0

**& MEZZANINE**  
LEVEL +1

08:00

### WELCOME COFFEE & NETWORKING

08:30

**Opening**  
Tom Lenaerts

Research Pitches

09:00

**Deep Learning**

**Applied Machine Learning**

**Constraint Programming**

**0**  
**Applied Machine Learning**

**+1**  
**Applications of Artificial Intelligence**

10:30

### COFFEE BREAK

11:00

**Keynote**  
Marie-Christine Rousset

12:00

### LUNCH BREAK

13:00

**Applied Machine Learning & Machine Learning for Medicine**

**Machine learning & model risk**  
Jos Gheerardyn  
yields.io

13:30

**Demo Session**

14:30

### COFFEE BREAK

15:00

**AI For Health & Medicine**

**Demo Session**

16:00

**FACts Session**

17:00

**Keynote**  
Jeremy Pitt

18:00

### CLOSING

19:30

### CONFERENCE DINNER (La Manufacture)

**08:00 Welcome Coffee & Networking****08:30 - 09:00 Opening in Halle Vitrée****09:00 - 10:30 Parallel Sessions****Applied Machine Learning (chair: Yingqian Zhang) - Gamay room**

- 09:00 Théo Verhelst, Olivier Caelen, Jean-Christophe Dewitte, Bertrand Lebuchot and Gianluca Bontempi  
*Understanding telecom customer churn with machine learning: from prediction to causal inference*
- 09:20 Abel Díaz Berenguer, Meshia Cédric Oveneke, Mitchel Alioscha-Perez and Hichem Sahli  
*Paired supervised learning and unsupervised pretraining of CNN-architecture for violence detection in videos*
- 09:40 Paulo Roberto de Oliveira da Costa, Jason Rhuggenaath, Yingqian Zhang, Alp Akcay, Wan-Jui Lee and Uzay Kaymak  
*Data-driven Policy on Feasibility Determination for the Train Shunting Problem*
- 10:00 Alireza Gharahighehi and Celine Vens  
*News Topic Recommendation using an extended Bayesian Personalized Ranking*
- 10:20 Pieter van den Ham, M. E. J. Raijmakers and B. Bredeweg  
*Analysing visitor flow using a Bluetooth positioning system*

**Deep Learning (chair: Joris Roels) - Halle Vitrée**

- 09:00 Siamak Mehrkanoon  
*Cross-Domain Neural-Kernel Networks*
- 09:20 Jose Oramas, Kaili Wang and Tinne Tuytelaars  
*Interpreting and Explaining Deep Models Visually*
- 09:40 Robin Manhaeve, Sebastijan Dumancic, Angelika Kimmig, Thomas Demeester and Luc De Raedt  
*DeepProbLog: Neural Probabilistic Logic Programming*
- 10:00 Gabrielle Ras, Luca Ambrogioni, Umut Guclu and Marcel van Gerven  
*Temporal Factorization of 3D Convolutional Kernels*
- 10:20 Nick Seeuws, Amir Hossein Ansari, Sabine Van Huffel and Gunnar Naulaers  
*Unsupervised Deep Feature Extraction for Neonatal Sleep Stage Classification*

**Constraint Programming (chair: Tias Guns) - Syrah room**

- 09:00 Anna Louise Latour, Behrouz Babaki and Siegfried Nijssen  
*Stochastic Constraint Propagation for Mining Probabilistic Networks*
- 09:20 Alex Mattenet, Ian Davidson, Siegfried Nijssen and Pierre Schaus  
*Generic Constraint-based Block Modeling using Constraint Programming*
- 09:40 Hélène Verhaeghe, Siegfried Nijssen, Gilles Pesant, Claude-Guy Quimper and Pierre Schaus  
*Learning Optimal Decision Trees using Constraint Programming*
- 10:00 Rocsildes Canoy and Tias Guns  
*Vehicle routing by learning from historical solutions (extended abstract)*

**Applied Machine Learning (chair: Adrien Bibal) - Petits Salons**

- 09:00 Mathias Van Herreweghe, Mathias Verbeke, Wannes Meert and Tom Jacobs  
*A Machine Learning-Based Approach for Predicting Tool Wear in Industrial Milling Processes*
- Valentin Hamaide and François Glineur  
*Predictive maintenance of a rotating condenser inside a synchrocyclotron*
- Lars Bokkers, Luca Ambrogioni and Umut Güçlü  
*Segmentation of Photovoltaic Panels in Aerial Photography using Group Equivariant FCNs*
- Xianghui Xie, Laurens Meeus and Aleksandra Pizurica  
*Partial Convolution Based Multimodal Autoencoder for Art Investigation*
- Pieter Delobelle and Bettina Berendt  
*Time to Take Emoji Seriously: They Vastly Improve Casual Conversational Models*
- Sinnu Susan Thomas, Jacopo Palandri, Mohsen Lakehal-Ayat, Punarjay Chakravarty, Friedrich Wolf-Monheim and Matthew Blaschko  
*Designing MacPherson Suspension Architectures using Bayesian Optimization*
- Jens de Hoog, Siegfried Mercelis and Peter Hellinckx  
*Improving Machine Learning-based Decision-Making through Inclusion of Data Quality*
- Pierre Dagnely, Tom Tourwé and Elena Tsiorkova  
*Industrial Assets Performance Labelling Based on Numerically Encoded Event Logs*
- 10:30

## Applications of Artificial Intelligence (chair: Arnoud Vissers) - Mezzanine

09:00	Siamak Mehrkanoon <i>Deep shared representation learning for weather elements forecasting</i>
	Timothy Verstraeten, Ann Nowé and Jan Helsen <i>Failure Avoidance for Wind Turbines through Fleetwide Control</i>
	Silvia Tulli, Agustin Ambrossio, Amro Najjar and Francisco Javier Rodriguez Lera <i>Great expectations \&amp; aborted business initiatives: the paradox of social robot between research and industry</i>
Research Pitches	Mitchel Alioscha-Perez, Meshia Cédric Oveneke, Abel Díaz Berenguer, Cédric Bertrand and Hichem Sahli <i>End-to-end Anomaly Detection, Correction and Prediction of Missing Values in Historical Daily Temperature Timeseries</i>
	Mostafa Dehghani, Hosein Azarbyonad, Jaap Kamps and Maarten de Rijke <i>Learning to Transform, Combine, and Reason in Open-Domain Question Answering</i>
	Cor Steging, Bart Verheij and Lambert Schomaker <i>The XAI paradox: Systems that perform well for the wrong reasons</i>
	Hamed Ayooobi, Ming Cao, Rineke Verbrugge and Bart Verheij <i>Handling Unforeseen Failures Using Argumentation-Based Learning</i>
	Nina Zizakic, Izumi Ito, Laurens Meeus and Aleksandra Pizurica <i>Autoencoder-learned local image descriptor for image inpainting</i>
10:30	Damian Kurpiewski, Michał Knapik and Wojtek Jamroga <i>On Domination and Control in Strategic Ability (Extended Abstract)</i>

### 10:30 - 11:00 Coffee Break

### 11:00 - 12:00 Keynote (Halle Vitrée)

11:00	Marie-Christine Rousset <i>Reasoning on Data: Challenges and Applications</i>
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### 12:00 - 13:00 Lunch Break

### 13:00 - 14:30 Parallel Sessions

## Applied ML & Machine Learning for Medicine (chair: Willem Waegeman) - Halle Vitrée

13:00	Joris Roels and Yvan Saeys <i>Cost-efficient segmentation of electron microscopy images using active learning</i>
13:20	Tom Van Steenkiste, Dirk Deschrijver and Tom Dhaene <i>Interpretable ECG Beat Embedding using Disentangled Variational Auto-Encoders</i>
13:40	Maxim Lippeveld, Carly Knill, Emma Ladlow, Andrew Fuller, Louise J Michaelis, Yvan Saeys, Andrew Filby and Daniel Peralta <i>Classification of human white blood cells using machine learning for stain-free imaging flow cytometry</i>
14:00	Tom Vander Aa, Imen Chakroun, Tom Ashby, Jaak Simm, Adam Arany, Yves Moreau, Thanh Le Van, Felipe Golib Dzib, Jörg Wegner, Vladimir Chupakhin, Hugo Ceulemans, Roel Wuyts and Wilfried Verachtert <i>SMURFF: a High-Performance Framework for Matrix Factorization Methods</i>
14:20	Marijn van Wingerden, Jelle de Boer and Eric Postma <i>Predicting 120-day hospital readmission using medical administrative patient data</i>

## Business Speaker - Gamay room

13:00	Jos Gheerardyn, CEO & co-founder at Yields.io <i>Machine learning and model risk</i>
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## Demo Session - Halle aux Fûts

13:30	Denis Steckelmacher, Hélène Plisnier and Ann Nowé <i>A Motorized Wheelchair that Learns to Make its Way through a Crowd</i>
	Youri Coppens, Eugenio Bargiacchi and Ann Nowé <i>A Virtual Maze Game to Explain Reinforcement Learning</i>
Demo Session	Pierre Carbonnelle, Bram Aerts, Marjolein Deryck, Joost Vennekens and Marc Denecker <i>An Interactive Consultant</i>
	Tom Vander Aa, Tom Ashby and Roel Wuyts <i>Virtual Screening on FPGA</i>
	Willem Röpke, Roxana Radulescu, Kyriakos Efthymiadis and Ann Nowé <i>DuStt - a Speech-to-Text Engine for Dutch</i>
	Habib-Ur-Rehman Khalid, Sofie Pollin, Thomas Gielen, Hans Cappelle, Miguel Glassee, Andre Bourdoux and Hichem Sahli <i>Gesture Recognition with an FMCW Radar</i>

Demo Session

Jessica Coto Palacio, Yailen Martínez Jiménez and Ann Nowé  
*Multi-Agent Reinforcement Learning Tool for Job Shop Scheduling Problems*

Jens Nevens, Paul Van Eecke and Katrien Beuls  
*Interactive Learning of Grounded Concepts*

Selma Yilmazyildiz Kayaarma, Sherik Lehal and Hichem Sahli  
*Politeness Detection in Speech for Human-Computer Interaction*

14:30 Jens Claes, Bart Bogaerts, Rocsildes Canoy, Emilio Gamba and Tias Guns  
*ZebraTutor: Explaining How to Solve Logic Grid Puzzles*

## 14:30 - 15:00 Coffee Break

## 15:00 - 16:00 Parallel Sessions

### Demo Session - Halle aux Fûts

15:00 Denis Steckelmacher, Hélène Plisnier and Ann Nowé  
*A Motorized Wheelchair that Learns to Make its Way through a Crowd*

Youri Coppens, Eugenio Bargiacchi and Ann Nowé  
*A Virtual Maze Game to Explain Reinforcement Learning*

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16:00 Jens Claes, Bart Bogaerts, Rocsildes Canoy, Emilio Gamba and Tias Guns  
*ZebraTutor: Explaining How to Solve Logic Grid Puzzles*

Demo Session

### AI For Health & Medicine (chair: Sofia Papadimitriou) - Halle Vitrée

15:00 Pieter Libin, Nassim Versbraegen, Ana Abecasis, Perpetua Gomez, Tom Lenaerts and Ann Nowé  
*Towards a phylogenetic measure to quantify HIV incidence*

15:20 Anne-Ruth José Meijer and Arnoud Visser  
*An unsupervised trained neural network model to predict visual cortex measurements*

15:40 Sarah Itani, Fabian Lecron and Philippe Fortemps  
*Data Mining for ADHD & ASD prediction based on resting-state fMRI signals: A literature review*

15:50 Emmeke Veltmeijer, Sezer Karaoglu and Theo Gevers  
*Integrating clinically-relevant features into skin lesion classification*

## 16:00 - 17:00 FACts Session

### FACts Session - Halle Vitrée

16:00 Holger Hoos  
*Talent, Diversity and Critical Mass - Challenges and Opportunities for AI in Europe*

16:20 Silja Renooij  
*Explainable AI: explain what to whom?*

16:40 Dirk Heylen  
*On multidisciplinary collaboration: the case of affective computing and social signal processing.*

## 17:00 - 18:00 Keynote (Halle Vitrée)

17:00 Jeremy Pitt  
*Democracy by Design: Basic Democracy and the Self-Organisation of Collective Governance*

## 18:00 Closing

## 19:30 Conference Dinner (La Manufacture)

# DAY 3

**HALLE VITRÉE**  
LEVEL 0

**GAMAY ROOM**  
LEVEL +1

**SYRAH ROOM**  
LEVEL +1

**PETITS SALONS**  
LEVEL 0

**MEZZANINE**  
LEVEL +1

08:00

## WELCOME COFFEE & NETWORKING

08:30

Supervised and semi-supervised learning

Generative & Creative AI

Natural Language

Research Pitches

Reinforcement Learning

Research Pitches

Machine Learning for Bioinformatics & Life Science

10:00

BNVKI Assembly

10:30

## COFFEE BREAK

11:00

Keynote  
Ana Paiva

12:00

## LUNCH BREAK / KION meeting (Merlot room)

13:00

Knowledge Representation & Hybrid AI

Data & Network Mining

Deep Learning & Reinforcement Learning

Research Pitches  
Supervised & Semi-Supervised Learning, Classification

Research Pitches

Agents and Multi-Agent Systems

14:30

## COFFEE BREAK

15:00

Explainability

Multi-Agent Systems

Best Student Papers

Research Pitches

Deep Learning

16:00

Prizes and Reception

17:30

## CLOSING

**08:00 Welcome Coffee & Networking****08:30 - 10:00 Parallel Sessions****Supervised and semi-supervised learning (chair: Gilles Louppe) - Halle Vitrée**

- 08:30 Guillaume Derval, Frédéric Docquier and Pierre Schaus  
*An aggregate learning approach for interpretable semi-supervised population prediction and disaggregation using ancillary data*
- 08:50 Thomas Mortier, Marek Wydmuch, Krzysztof Dembczynski, Eyke Hüllermeier and Willem Waegeman  
*Set-Valued Prediction in Multi-Class Classification*
- 09:10 Jonathan Peck, Bart Goossens and Yvan Saeys  
*Calibrated Multi-Probabilistic Prediction as a Defense against Adversarial Attacks*
- 09:30 Mengzi Tang, Pérez-Fernández and De Baets  
*Machine learning methods for ordinal classification with additional relative information*

**Generative & Creative AI (chair: Rob Saunders) - Gamay room**

- 08:30 Frederik Calsius and Stylianos Asteriadis  
*Synthesizing Personality-Dependent BodyPostures Using Generative Adversarial Networks*
- 08:50 David Winant, Joachim Schreurs and Johan Suykens  
*Latent space exploration using generative kernel PCA*
- 09:10 Thomas Winters  
*Modelling Mutually Interactive Fictional Character Conversational Agents*
- 09:30 Steven Homer  
*Learning Hierarchical Spectral Representations of Human Speech with the Information Dynamics of Thinking*
- 09:40 Catia Ferreira and Sviatlana Hoehn  
*Crafting Conversational Agents' Personality in a User-centric Context*
- 09:50 René Raab and Kurt Driessens  
*A Generative Policy Gradient Approach for Learning to Play Text-Based Adventure Games*

**Natural Language (chair: Gerasimos Spanakis) - Syrah room**

- 08:30 Willem Röpke, Roxana Radulescu, Kyriakos Efthymiadis and Ann Nowé  
*Training a Speech-to-Text Model for Dutch on the Corpus Gesproken Nederlands*
- 08:50 Florian Kunneman, Thiago Castro Ferreira, Antal van Den Bosch and Emiel Krahmer  
*Question Similarity in Community Question Answering: A Systematic Exploration of Preprocessing Methods and Models*
- 09:10 Wietse de Vries  
*Explaining lexical processing times with cognitively plausible computational models.*
- 09:30 Zoe Gerolemou and Johannes C. Scholtes  
*Target-Based Sentiment Analysis as a Sequence-Tagging Task*

**Reinforcement Learning (chair: Frans Oliehoek) - Petits Salons**

- 08:30 Denis Steckelmacher, Hélène Plisnier, Diederik M. Roijers and Ann Nowé  
*Sample-Efficient Model-Free Reinforcement Learning with Off-Policy Critics*
- Oliver Roesler and Ann Nowé  
*Action Learning and Grounding in Simulated Human-Robot Interactions*
- Reza Refaei Afshar, Yingqian Zhang, Murat Firat and Uzay Kaymak  
*A Reinforcement Learning Method to Select Ad Networks in Waterfall Strategy (Extended Abstract)*
- Hélène Plisnier, Denis Steckelmacher, Diederik M. Roijers and Ann Nowé  
*Transfer Reinforcement Learning across Environment Dynamics with Multiple Advisors*
- Steven Homer  
*Maximum Entropy Bayesian Actor Critic*
- Pieter Libin, Timothy Verstraeten, Diederik Roijers, Wenjia Wang, Kristof Theys and Ann Nowé  
*Thompson sampling for m-top Exploration*
- Arne Gevaert, Jonathan Peck and Yvan Saeys  
*Distillation of Deep Reinforcement Learning Models using Fuzzy Inference Systems*
- 10:00

## Machine Learning for Bioinformatics & Life Science (chair: Willem Waegeman) - Mezzanine

08:30	Redona Brahimetaj, Evgenia Papavasileiou, Frederik Temmermans, Bruno Cornelis, Inneke Willekens, Johan De Mey and Bart Jansen <i>Computer Aided Detection &amp; Diagnosis System for Breast Cancer Detection Based on High Resolution 3D micro-CT Breast Microcalcifications</i>
Research Pitches	Christina Papagiannopoulou, René Parchen and Willem Waegeman <i>Investigating Time Series Classification Techniques for Rapid Pathogen Identification with Single-Cell MALDI-TOF Mass Spectrum Data</i>
	Jiangming Sun, Nina Jeliaskova, Vladimir Chupakhin, Jose-felipe Golib-dzib, Ola Engkvist, Lars Carlsson, Jorg Wegner, Hugo Ceulemans, Ivan Georgiev, Vedrin Jeliaskov, Nikolay Kochev, Thomas Ashby and Hongming Chen <i>ExCAPE-DB: an integrated large scale dataset facilitating Big Data analysis in chemogenomics</i>
	Fateme Nateghi Haredasht and Mohammad Hassan Moradi <i>Nonlinear Causality Inference in Microarray Time Series</i>
10:00	Aren Maes, Tom Van Steenkiste, Tom Dhaene and Dirk Deschrijver <i>A comprehensive study of early sepsis detection models based on multivariate medical time series</i>

### 10:00 - 10:30 BNVKI Assembly (Halle Vitrée)

### 10:30 - 11:00 Coffee Break

### 11:00 - 12:00 Keynote (Halle Vitrée)

- 11:00 Ana Paiva  
*Hybrid Groups of Humans and Agents: engineering sociality and collaboration*

### 12:00 - 13:00 Lunch Break / KION meeting (Merlot room)

### 13:00 - 14:30 Parallel Sessions

#### Deep Learning & Reinforcement Learning (chair: Aske Plaat) - Syrah room

- 13:00 Matthia Sabatelli, Gilles Louppe, Pierre Geurts and Marco Wiering  
*Deep Quality-Value Learning*
- 13:20 Sammie Katt, Christopher Amato and Frans Oliehoek  
*Bayesian Reinforcement Learning in Factored POMDPs*
- 13:40 Jakob Struye, Kevin Mets and Steven Latré  
*HTMRL: Biologically Plausible Reinforcement Learning with Hierarchical Temporal Memory*
- 14:00 Antoine Wehenkel and Gilles Louppe  
*Unconstrained Monotonic Neural Networks*

#### Data & Network Mining (chair: Frank Van Harmelen) - Gamay room

- 13:00 Bo Kang, Jeffrey Lijffijt and Tijn De Bie  
*Conditional Network Embeddings*
- 13:20 Giannis Bekoulis, Johannes Deleu, Thomas Demeester and Chris Develder  
*Adversarial perturbations for joint entity and relation extraction*
- 13:40 Joachim Schreurs, Michael Fanuel and Johan Suykens  
*Towards deterministic diverse subset sampling*
- 14:00 Joey De Pauw, Sandy Moens and Bart Goethals  
*SubSect — An Interactive Itemset Visualization*

#### Knowledge Representation & Hybrid AI (chair: Joost Vennekens) - Halle Vitrée

- 13:00 Frank Van Harmelen and Annette ten Teije  
*A boxology of hybrid learning & reasoning systems*
- 13:20 Sicco Verwer and Yingqian Zhang  
*Learning Optimal Classification Trees Using a Binary Linear Program Formulation*
- 13:40 Matthias van der Hallen and Gerda Janssens  
*SOGrounder: Modelling and Solving Second-Order Logic (Extended Abstract)*
- 14:00 Simon Vandeveld, Kylian Van Dessel and Herman Crauwels  
*An Interactive Knowledge Base Application for Group Assignment*
- 14:10 Andrei Popescu and Pinar Yolum  
*PARCo: a Knowledge-Based Agent for Context-Sensitive Reasoning and Decision-Making Regarding Privacy*



## Supervised & Semi-Supervised Learning, Classification (chair: Gianluca Bontempi) - Petits Salons

Research Pitches	13:00	Jasper Paalman, Shantanu Mullick, Kalliopi Zervanou and Yingqian Zhang <i>Term Based Semantic Clusters for Very Short Text Classification</i>
		Nienke Eijsvogel and Marijn Schraagen <i>Revision Classification for Current Events in Dutch Wikipedia using a Long Short-term Memory Network</i>
		Marilyn Bello, Gonzalo Nápoles, Koen Vanhoof and Rafael Bello <i>Reduction methods on multi-label datasets based on Granular Computing</i>
		Dimitri Papadimitriou and Steven Latre <i>Scientific Machine Learning: Towards Predictive Closed-Form Models</i>
		Dave Stikkolorum, Peter van der Putten, Caroline Sperandio and Michel Chaudron <i>Towards Automated Grading of UML ClassDiagrams with Machine Learning</i>
	14:30	Felipe Kenji Nakano and Ricardo Cerri <i>Hierarchical Classification of Transposable Elements</i>

## Agents and Multi-Agent Systems (chair: Ann Nowé) - Mezzanine

Research Pitches	13:00	Onuralp Ulusoy and Pinar Yolum <i>Privacy Norms in Online Social Networks</i>
		Merijn Bruijnes, Siska Fitriane, Deborah Richards, Amal Abdulrahman and Willem-Paul Brinkman <i>What are We Measuring Anyway? A Literature Survey of Questionnaires Used in Studies Reported in the Intelligent Virtual Agent Conferences</i>
	14:30	Jannick Hemelhof, Mihail Mihaylov and Ann Nowé <i>Improving Zero-Intelligence Plus for Call Markets</i>

## 14:30 - 15:00 Coffee Break

## 15:00 - 16:00 Parallel Sessions

### Best Student Papers (chair: Pieter Libin) - Syrah room

- 15:00 Jelmer Neeven and Kurt Driessens  
*Iterative Model-based Transfer in Deep Reinforcement Learning*
- 15:10 Rémi Delanghe, Tom Van Steenkiste, Dirk Deschrijver and Tom Dhaene  
*Continuous Exploitative Measurement Trajectories Using Bayesian Optimisation*
- 15:20 Kevin Bardool, Tinne Tuytelaars and Jose Oramas  
*A Context Aware Deep Learning Architecture for Object Detection*
- 15:30 Regis Loeb, Timothy Verstraeten, Ann Nowé and Ann Doods  
*Privacy Preserving Reinforcement Learning over Distributed Datasets*
- 15:40 Nikki Theeuwes, Geert-Jan van Houtum and Yingqian Zhang  
*Formalization and Improvement of Ambulance Dispatching in Brabant-Zuidoost*
- 15:50 Gang Wang and Bernard De Baets  
*Automated Artemia detection and length measurement using deep convolutional networks*

### Multi-Agent Systems (chair: Yailen Martinez) - Gamay room

- 15:00 Jonas Kuckling, Keneth Ubada Arriaza and Mauro Birattari  
*Simulated Annealing as an Optimization Algorithm in the Automatic Modular Design of Robot Swarms*
- 15:20 Davide Dell'Anna, Mehdi Dastani and Fabiano Dalpiaz  
*Runtime Revision of Norms and Sanctions based on Agent Preferences (Extended Abstract)*
- 15:40 Gaëtan Spaey, Miquel Kegeleirs, David Garzón Ramos and Mauro Birattari  
*Comparison of different exploration schemes in the automatic modular design of robot swarms*

### Explainability (chair: Frank van Harmelen) - Halle Vitrée

- 15:00 Hanna Schraffenberger, Yana van de Sande, Gabi Schaap and Tibor Bosse  
*Can you fool the A.I.? Investigating people's attitude towards A.I. with a smart photo booth*
- 15:20 Nico Roos and Zhenglong Sun  
*Explainable Robotics applied to bipedal walking gait development*
- 15:40 Michelle Peters, Lindsay Kempen, Meike Nauta and Christin Seifert  
*Visualising the Training Process of Convolutional Neural Networks for Non-Experts*

## Deep Learning (chair: Bertrand Lebuchot) - Petits Salons

15:00	Gilles Louppe, Joeri Hermans and Kyle Cranmer <i>Adversarial Variational Optimization of Non-Differentiable Simulators</i>
Research Pitches	Kevin Bardool, Tinne Tuytelaars and Jose Oramas <i>A Systematic Analysis of a Context Aware Deep Learning Architecture for Object Detection</i>
	Mark de Blaauw, Diederik Roijers and Vesa Muhonen <i>Thesis abstract: A Scalable Logo Recognition Model with Deep Meta-Learning</i>
16:00	Jérôme Fink, Anthony Clève and Benoît Frénay <i>Deep Learning Applied to Sign Language</i>

## 16:00 - 17:30 Prizes and Reception

## 17:30 Closing