



# **BNAIC BENELEARN**

— Namur 2025 —

The 37th Benelux Conference on Artificial Intelligence and  
the 34th Belgian Dutch Conference on Machine Learning

November, 19-21, 2025

## **PROGRAMME**



# WELCOME TO BNAIC BENELEARN 2025

Welcome to the 37th edition of the annual Benelux Conference on Artificial Intelligence (BNAIC 2025) and the 34th Belgian Dutch Conference on Machine Learning (BeNeLearn 2025), organised by the Faculty of Computer Science of the Université de Namur, under the auspices of the Benelux Association for Artificial Intelligence (BNVKI) and the Dutch Research School for Information and Knowledge Systems (SIKS).

Held yearly, the objective of these conferences is to promote and disseminate recent research developments in Artificial Intelligence in the Benelux. For the scientific part, we welcomed five types of contributions, namely A) regular papers, B) encore abstracts of papers published at international AI venues, C) demonstration abstracts, D) thesis abstracts, and E) late-breaking abstracts. We received 95 submissions this year, out of which 92 were accepted (46 as poster presentations). A selected number of the full papers submissions will be invited to submit their paper to this year's post-proceedings (to be published in the Springer CCIS series).

In addition to the regular research presentations, we were happy to include several other elements in the program of BNAIC 2025, among which keynote presentations by Anna Rogers (IT University of Copenhagen) and Decebal Mocanu (University of Luxembourg), a special FACt (FACulty focusing on the FACts of AI) session with presentations by Antske Fokkens (VU Amsterdam), Jerry Spanakis (University of Maastricht) and Tias Guns (KU Leuven) and a dedicated EurAI session, featuring invited speakers from the Italian AIxIA association, as well as the winner and runner-up of the very first BNVKI dissertation prize!

We would like to express our gratitude to everyone who has made this conference possible: in addition to all invited speakers, many thanks to all organising and program committee members for their hard work! Finally, a big thank you to all of our sponsors.

Katrien BEULS and Benoît FRÉNAV,  
General Chairs



# INFORMATION

## Premises

The lectures will take place in the auditorium Pedro Arrupe 2 (PA02), located in the Sentier Thomas (see map).

The parallel sessions will be held at the Faculty of Computer Science, rue Grand-gagnage 21 (5 min. on foot)

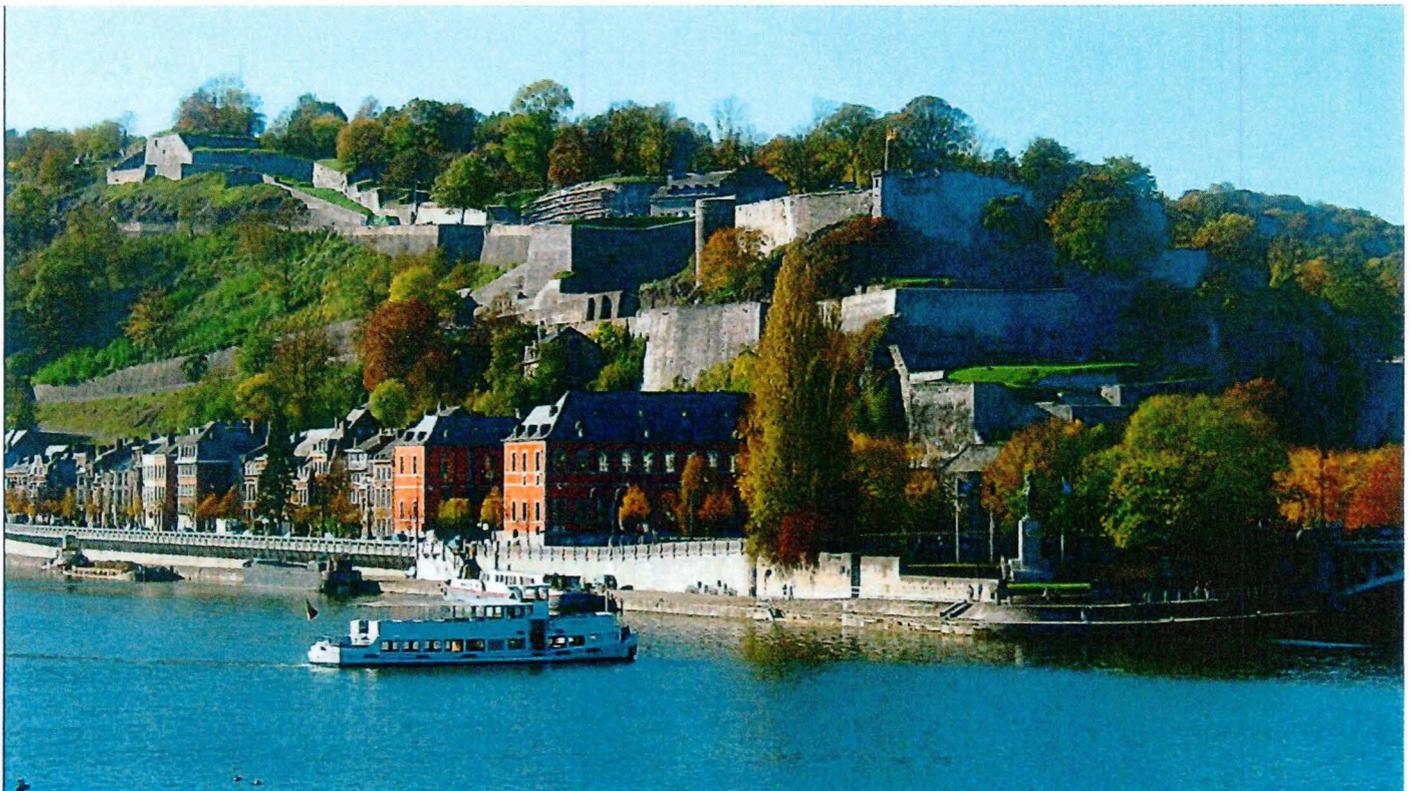
Check-in and reception is done in the PA02 lobby. A permanence will be ensured throughout the event.

Coffee breaks, meals and cocktail will be held in the same place.

## Wifi

Connect to: unamur\_guest

Code : yoae332hvs



▲  
*The Citadel of Namur, with the Meuse and the Parliament of Wallonia in the foreground*

## Taxis

- ◆ **Burnonville**, Tel.: 081 22 55 55
- ◆ **Taxi Express**, Tel.: 0476 55 52 44

## Travel Agency

Loisirs Evasion : 71 rue des Carmes, Namur, Tel.: 081 22 76 29

## Airports

Flight information: 0900 7 0000

- ◆ **Brussel Airport (Zaventem)**  
<https://www.brusselsairport.be/en/passngr/flinfo/deps>
- ◆ **Charleroi Airport (Brussels South)**  
<http://www.charleroi-airport.com/en/en-brussels-south-charleroi-airport/index.html>

## Tourism Office

rue du Pont 21, Namur, Tel.: 081 24 64 49

## Restaurants

- ◆ *Regional and French cuisine*
  - **Le Temps des Cerises**, rue des Brasseurs 22, Tel.: 081 22 53 26
  - **Le Patanthrope**, Place du Chanoise Descamps 15, Tel.: 081 22 80 43
  - **Pépité - Cave à manger**, rue Notre-Dame 44, Tel.: 0476 62 01 82
- ◆ *Italian cuisine*
  - **Basilic & Co**, rue Patenier 35, Tel.: 081 75 12 97 (closed on Tuesday)
  - **Pizzeria L'Etna**, Rue Haute Marcelle, 13-15, Tel. : 081 22 12 69
  - **Chez Fabio**, rue Henri Lemaître 90, Tel.: 081 58 16 60
- ◆ *Chinese cuisine*
  - **La Petite Cuisine**, rue des Brasseurs 37, Tel.: 08141 45 58
- ◆ *Japanese cuisine*
  - **Sanga**, Rue Saint-Loup 8, Tel.: 081 24 10 38
- ◆ *Arab cuisine*
  - **Le Mechoui**, rue des Combattants 17, Tel. : 081 73 96 06

# PROGRAM

## Wednesday, 19 Nov.

12:00 - 13:30 Hall PA02	Registration Opens & Welcome lunch
13:30 - 14:00 PA02	<b>Opening</b> <b>Annick CASTIAUX</b> , UNamur Rector
14:00 - 15:00 PA02	<b>Keynote 1: Anna ROGERS</b> <b>Factuality and Attribution for Large Language Models</b> <i><b>Abstract:</b></i> This talk will address the factuality status of generative language model output, and the current approaches to providing attribution to sources of information: retrieval-augmented generation and training data attribution. I will also discuss the problem of detecting generated texts, and the impact of large language models on the information ecosphere and content economy.
15:00 - 15:30	Coffee break
15:30 - 16:15 Academic Room	Women in AI Networking Session
16:20 - 17:20 I31, I32, I33 CS Faculty (Floor 3)	<b>Parallel Sessions</b> <ul style="list-style-type: none"> <li>◆ AI and Health</li> <li>◆ Deep Learning</li> <li>◆ Knowledge Representation and Reasoning</li> <li>◆ Game Theory</li> <li>◆ Trustworthy AI</li> </ul>
17:20 - 18:30 Hall PA02	Demo and Poster Session
18:30 - 19:30 Hall PA02	Welcome Reception & Continuation Poster and Demo Sessions

## Thursday, 20 Nov.

08:30 - 09:00 Hall PA02	Registration Opens
9:00 - 10:40 I31, I32, I33 CS Faculty (Floor 3)	<b>Parallel Sessions</b> <ul style="list-style-type: none"> <li>◆ AI and Health</li> <li>◆ Computer Vision</li> <li>◆ Deep Learning</li> </ul>
10:40 - 11:20	<b>Coffee Break</b>
11:20 - 12:30	<ul style="list-style-type: none"> <li>◆ EurAI Session (The Italian Association for Artificial Intelligence)</li> <li>◆ BNVKI Dissertation Prize 2025</li> </ul>
12:30 - 14:00 Hall PA02	Lunch
13:00 - 14:00 PA02	◆ BNVKI General Assembly
14:00 - 15:20 PA02	<b>IMPACT Session</b>
I31, I32, I33 CS Faculty (Floor 3)	<b>Parallel Sessions</b> <ul style="list-style-type: none"> <li>◆ Reinforcement Learning</li> <li>◆ Trustworthy AI &amp; NLP</li> <li>◆ AI and Society</li> </ul>
15:30 - 16:00 Hall PA02	<b>Coffee Break</b>
16:00 - 17:00 PA02	<b>IMPACT Session - continues</b>
I31, I32, I33 CS Faculty (Floor 3)	<b>Parallel Sessions</b> <ul style="list-style-type: none"> <li>◆ Reinforcement Learning</li> <li>◆ Time Series and Optimization</li> </ul>
17:00 - 18:00	<b>FACT Talks (BNVKI)</b>
18:30 - 20:00	<b>Sightseeing Event</b>
20:00 -	<b>Conference Dinner at Brasserie François, Place Saint-Aubain</b>

# PROGRAM

## Friday, 21 Nov.

08:30 - 09:00 Hall PA02	Registration Opens
9:00 - 10:00 PA02	<p><b>Keynote 1: Decebal MOCANU</b> <i>Sparse Training of Neural Networks</i></p> <p><b>Abstract:</b> Artificial Intelligence is becoming both a blessing and a burden, thanks to the power of artificial neural networks. The talk starts with a quick overview of the challenges encountered by the modern artificial neural network models. Next, it investigates in more detail one of these challenges, i.e., the dense connectivity, which prevents us from having scalable and efficient deep learning at both cloud and edge computing levels. An emerging state-of-the-art solution is presented, i.e., sparse-to-sparse training, which reduces the number of connections quadratically while persistently improving performance and generalization. The discussion begins with the first works on static and dynamic sparse training in the typical single-task (un)supervised learning context. Further, it gradually introduces newer approaches in the more challenging contexts of continual and reinforcement learning. Besides the fundamental theoretical novelty, a glimpse into the future, such as truly sparse implementations and deep learning energy and cost efficiency, is also provided and open for discussion.</p>
10:00 - 10:30 Hall PA02	<b>Coffee Break</b>
10:40 - 11:40 PA02	<p><b>Parallel Sessions</b></p> <ul style="list-style-type: none"> <li>◆ Reinforcement Learning</li> <li>◆ Grounded AI</li> <li>◆ Natural Language Processing</li> </ul>
12:00 - 12:45 PA02	<ul style="list-style-type: none"> <li>◆ <b>BNVKI Award ceremony and closing:</b> Yingqian Zhang, President of BNVKI</li> <li>◆ <b>Closing words:</b> Anthony Cleve, Dean of the Faculty of Computer Science</li> </ul>



## Folklore and traditions

▲ *The stilt-walkers: For more than 600 years, two teams of stilt-walkers from Namur have been fighting relentlessly. On one side, the Mélans of the old town with their yellow and black stilts. On the other, the Avresses come from beyond the ramparts on their red and white stilts.*



◀ *The Alfiers: A dozen people still practice the flag game which probably derives from Spanish flag bearers, the 'Alférez'. It would therefore be about remembrance of soldiers from our regions hired in the regiments during the period of the Spanish Netherlands then Austrian in the 16th and 17th centuries.*

# SESSION OVERVIEW

## Session 1: Wednesday 16h20 - 17h20

Title	Authors
<b>AI in Health (I31)</b>	
A Temporal Causal Network Model of Student Mental Well-being	Fakhra JABEEN, Janne BOSMA, Caroline VAN ROOIJ, Renate H.M. DE GROOT, Tibor BOSSE
Comparative Study of CNN Backbones for Hemoglobin Estimation from Fingernail Images	Judita RUDOKAITE, L.L. Sharon ONG, Joris VAN EIJKELenburg, Katja VAN DEN HURK, Elisabeth HUIS IN 'T VELD
<b>Deep Learning (I31)</b>	
Transformers Also Struggle with Extrapolating Ill-Behaved Learning Curves	Adelina-Andreea CAZACU, Cheng YAN, Sayak MUKHERJEE, Tom Julian VIERING
<b>Knowledge Representation and Reasoning (I32)</b>	
Argument Decomposition in Abstract Dialectical Frameworks	Johannes E. BENDLER, Tjitze RIENSTRA
COLUMBUS: Evaluating COgnitive Lateral Understanding Through Multiple-Choice reBUSes	Koen KRAAIJVELD, Yifan JIANG, Kaixin MA, Filip ILIEVSKI
<b>Game Theory (I32)</b>	
Evolution favours positively biased reasoning in sequential interactions with high future gains	Marco SAPONARA, Elías FERNÁNDEZ DOMINGOS, Jorge M. PACHECO, Tom LENAERTS
<b>Trustworthy AI (I33)</b>	
Reducing Occupation Stereotypes in T2I models using Reward Models and Prompt Optimization	Alex ZWAKENBERG, Sietske TACOMA, Tina MIOCH, Marieke M. M. PEETERS
Artificial Delegates Resolve Fairness Issues in Perpetual Voting with Partial Turnout	Apurva SHAH, Axel ABELS, Ann NOWE, Tom LENAERTS
Assessing machine learning fairness with multiple contextual norms	Pim KERKHOVEN, Virginia DIGNUM, Monowar BHUYAN

## Session 2: Thursday 9h00 - 10h20

Title	Authors
<b>AI in Health (I31)</b>	
Engineering Spatial and Molecular Features from Cellular Niches to Inform Predictions of Inflammatory Bowel Disease	Myles Joshua TOLEDO TAN, Maria KAPETANKI, Panayiotis V. BENOS
Improving Predictive Maintenance with the Health-Aware Transformer	Islam M. Momtaz A. SADEK, Eric O. POSTMA, Rogier BRUSSEE, Juan Sebastian OLIER
Evaluating Transfer Learning Strategies for Lung Sound Event Classification	Michiel JACOBS, Lode VUEGEN, Peter KARSMAKERS
Aligning XAI with EU Regulations for Smart Biomedical Devices: A Methodology for Compliance Analysis	Michael LOGNOUL
<b>Computer Vision (I32)</b>	
FindingEmo - An Image Dataset for Emotion Recognition in the Wild	Laurent MERTENS, Elahe YARGHOLI, Jan VAN DEN STOCK, Hans OP DE BEECK, Joost VENNEKENS
Predicting Damage of Dutch Road Markings	Amanda JANSEN, Vivienne JANSEN, Jurjen HELMUS, Arnoud VISSER
Automated Detection and Tracking of Sewer Pipeline Structural Elements	Fabian WIENTJES, Bram TON, Henry MAATHUIS
Self-Compressing Vision Tower for Efficient Dense Prediction Tasks	Aditya SHOURYA, Guangzhi TANG, Chang SUN
<b>Deep Learning and Machine Learning (I33)</b>	
On the Effect of Gradient Regularisation on Interpretability	Arn DE MOOR, Arne GEVAERT, Jonathan PECK, Yvan SAEYS
Active semi-supervised learning for multi-target regression	Maira Farias ANDRADE LIRA, Luisa CAVALCANTE, Celine VENS, Ricardo PRUDENCIO, Felipe Kenji NAKANO

## SESSION OVERVIEW

Title	Authors
Two-Stage Object Detection in Aerial Imagery with a Compact Convolutional Transformer RoI Head	Andrej HULÁK, Bulat KHAERTDINOV, Mirela POPA

### Session 3: Thursday 14h00 - 15h20

Reinforcement Learning (I31)	
Learning Spatially Refined Sub-Policies for Temporal Task Composition in Continuous RL	Tim VAN GELDER, Herke VAN HOOF
Analysis of Bluffing by DQN and CFR in Leduc Hold'em Poker	Tarik ZAČIRAGIĆ, Aske PLAAT, Joost BATENBURG
Improving Robustness of AlphaZero Algorithms to Test-Time Environment Changes	Isidoro TAMASSIA, Wendelin BOEHMER
Cooperation or coincidence ? Explaining cooperation in multi-agent reinforcement learning	Loïc CORDEIRO FONSECA, Yannick MOLLINGHEN, Tom LENAERTS
Trustworthy AI & NLP (I32)	
CLARIFY: Concept Level Active-Learning Ranker Interpreter for Systematic Reviews	Jelle Jasper TEIJEMA, Ayoub BAGHERI
Why should I trust you? Influence of explanation design on consumer behavior in AI-based services	Florence NIZETTE, Wafa HAMMEDI, Allard VAN RIEL, Nadia STEILS
Wisdom from Diversity: Bias Mitigation Through Hybrid Human-LLM Crowds	Axel ABELS, Tom LENAERTS
Privacy-Aware Traffic Re-Identification with Interpretable Sparse Autoencoders	Joris HEEMSKERK, Martijn FOLMER, Michael DUBBELDAM, Rianne VAN OS, Henry MAATHUIS

# SESSION OVERVIEW

Title	Authors
<b>AI and Society (I33)</b>	
Clustering Internet Memes Across Similarity Dimensions	Tygo Bloem, Filip Ilievski
Adding Value with Foundation Models: a Balancing Act	Sietske Tacoma, Matthieu Laneuville, Marieke Peeters, Stefan Leijnen
Design Matters: Unveiling the Impact of AI Engineering Decisions on Alignment - A Case Study in School Dropout Prediction	Leticia Arco García, Johan Loeckx
Universal Prompt Injection Techniques for Detecting LLM-based Assignment Fraud	Dorina Sîli, Bastian Küppers, Theodor Schnitzler

## Session 4: Thursday 16h00 - 17h00

<b>Reinforcement Learning (I31)</b>	
TransZero: Parallel Tree Expansion in MuZero using Transformer Networks	Emil MALMSTEN, Wendelin BOEHMER
Encore Abstract: A Research Agenda for Usability and Generalisation in Reinforcement Learning	Dennis J. N. J. SOEMERS, Spyridon SAMOTHRAKIS, Kurt DRIESENS, Mark WINANDS
InnateCoder: Learning Programmatic Options with Foundation Models	Rubens O. MORAES, Quazi Asif SADMINE, Hendrik BAIER, Levi LELIS
<b>Time Series and Optimization (I32)</b>	
Optimal Planning for Smart Energy Management of Residential Batteries	Tom ALARD, Yvan SAEYS, Arne GEVAERT
Geometric design of the tangent term in landing algorithms for orthogonality constraints	Florentin GOYENS, Pierre-Antoine ABSIL, Florian FEPPON

# SESSION OVERVIEW

## Session 5: Friday 10h40 - 11h40

<b>Reinforcement Learning (I31)</b>	
Robust Dynamic Material Handling via Adaptive Constrained Evolutionary Reinforcement Learning	Chengpeng HU, Ziming WANG, Bo YUAN, Jialin LIU, Chengqi ZHANG, Xin YAO
Synthetic Document Generation for Form Understanding with Vision-Language Models	Angelo Roy THOMPSON, Andrei Alexandru CHIOCHIU, Noah SCHARRENBURG
Towards Language-Augmented Multi-Agent Deep Reinforcement Learning	Maxime TOQUEBIAU, Jae-Yun JUN, Faiz BEN AMAR, Nicolas BREDECHE
<b>Grounded AI (I32)</b>	
Multi-Environment MiniGrid World Models	Riju MUKHERJEE, Kurt DRIESSENS, Dennis J. N. J. SOEMERS
Generic Planning Using Qualitative Causal Models for Self-Learning Autonomous Robots	Marco VAN CLEEMPUT, Jan LEMEIRE, Ruben SPOLMINK
Neurosymbolic Graph Enrichment for Grounded World Models	Stefano DE GIORGIS, Aldo GANGEMI, Alessandro RUSSO
<b>Natural Language Processing (I33)</b>	
Adapting Lightweight Vision Language Models for Radiological Visual Question Answering	Aditya SHOURYA, Michel DUMONTIER, Chang SUN
LoRA-Adapted Diffusion	Ruurd Jan Anthonius KUIPER, Lars DE GROOT, Bram VAN ES, Maarten VAN SMEDEN, Ayoub BAGHERI
A Survey of Discrete Diffusion for Text and Genomic Sequence Generation	Lars DE GROOT, Ruurd Jan Anthonius KUIPER, Ayoub BAGHERI

## Poster Presentations: Wednesday 17h30 - 19h30

Poster n°	Title	Authors
1	An Instance-Level Profiling Framework for Graph-Structured Data	Tianqi ZHAO, Russa BISWAS, Megha KHOSLA
2	Evaluating Conformal Prediction in Weather Forecasting	Thomas MORTIER, Cas DECANCO, Diego G. MIRALLES
3	Interpretable Parametric Neighbor Embedding	Edouard COUPLET, Pierre LAMBERT, John Aldo LEE, Cyril DE BODT
4	Railway Track Defect Detection	Augustin CRESPIN, Ioannis KOSTIS, Pierre SCHAUS
5	Large Language Models as End-to-end Combinatorial Optimization Solvers	Xia JIANG, Yaoxin WU, Minshuo LI, Yingqian ZHANG
6	Chronology-Driven RAG for Construction Meeting Minutes	Ioannis KOSTIS, Pierre SCHAUS
7	Are Weather Emulators Pushing the Frontier of Subseasonal Heat Extremes Forecasting?	Cas DECANCO, Thomas MORTIER, Diego MIRALLES
8	Linking Network Topology and Mobility Function: Toward Transferable Mobility Agents Across Cities	Julien BAUDRU, Lluc Bono ROSSELLO, Hugues BERSINI
9	Aligning Recommendation Explanations to User Preferences Using LLMs Fine-Tuned by Reinforcement Learning with AI Feedback	Julien ALBERT, Martin BALFROID, Lluc Bono ROSSELLÓ, Arunav DAS, Lucile DIERCKX, Yanni SUN
10	User-Centric Evaluation of LLM-Based Pseudonymization in Medical Texts	Stig HELLEMANS, Kris LAUKENS, Pieter MEYSMAN
11	Pareto Value-Conditioned Networks for MORL in Stochastic Environments	Liam P.H. MERTENS, Ann NOWE, Diederik M ROIJERS
12	LLM Size Reduction and Carbon Footprint	Pierre DOSQUET, Ashwin ITTOO

# POSTERS

Poster n°	Title	Authors
13	LLM-powered Cyber-Physical System Features Extraction	Guillaume NGUYEN, Xavier DEVROEY
14	Automatic Speech Recognition for Non-native Speakers	Adélaïde COUPLET, Anaïs TACK, Anne-Catherine SIMON
15	Rethinking the Distribution Law in t-SNE by using a Pearson type VII distribution	Edouard BOMANS, Benoit FRÉNAV, Anne-Sophie LIBERT
16	Pairwise and Attribute-Aware Decision Tree-Based Preference Elicitation for Cold-Start Recommendation	Xuehua YANG, Wenhan Cu, Celine VENS
17	Inertia and fear of lagging behind drive unsafe technological development in an idealised AI Race experiment	Elias FERNÁNDEZ DOMINGOS, The Anh HAN
18	A Hierarchical Piecewise Approximation Framework for Pattern-Based Sequence Learning	Patrick VAN DER SPIEGEL, Johan LOECKX
19	Beyond-Accuracy (Sparsed-) coVariance Neural Network Recommender Systems	Ivan BOZHANIN
20	Investigating Fairness in Epidemic Control	Sam VANSRINGEL, Alexandra CIMPEAN
21	Causal discovery on geospatial data: Investigating the impact of amenity proximity on residential property values	Shalaleh HILLEBRAND, Arjen HOMMERSOM, Jesse HEYNINCK, Natasha ALECHINA
22	A comparison of GRPO and PPO in Reinforcement Learning Environments	Alexander CREMER
23	A Study Examining Of How AI-Driven mHealth Applications Communicate Ethical Responsibilities To Patients	Renske BATEN, Banu BURUK
24	Unveiling Gender Bias: Transformer Models and Explainability Techniques in Dutch Job Ad Analysis	Megi DRAGOTI, Eliza HOBO, Maaïke H.T. DE BOER

Poster n°	Title	Authors
25	Machine Learning-Based Prediction of Inpatient Length of Stay at CNRFR – Rehazenter Rehabilitation Center	Luis DIERICK, Benoit FRÉNAV
26	Automatic Evaluation of the Pedagogical Effectiveness of Open-Domain Chatbots in a Language-Learning Game	Bianca CIOBANICA, Serge BIBAUW, Anaïs TACK
27	Self-Supervised Learning for Automated ECG Signal Quality Assessment	Dieko DE GRAAF, Maria GALANTY, Hoel KERVADEC, Clara I. SÁNCHEZ
28	Difficulty-Aware Diagnosis: A Two-Step Approach to Classification of Heterogeneous Datasets	Jimmy MULDER, Toon RENSSSEN, Roelant OSSEWAARDE, Sietske TACOMA, Henry MAATHUIS, Yolande PIJNENBURG
29	Can we Trust Explanation! Evaluation of Model-agnostic explanation techniques	Syed Ihtesham Hussain SHAH, Annette TEN TEIJE, José VOLDERS
30	Real-time Navigational Intent Detection from Hippocampal EEG: A Proof of Concept	Nikitas SAVVIDES, Pietro BONIZZI, Christian HERFF, Anirudh WODEYAR
31	Bring Your Own Labels : Graph-Based Self-Supervised Learning for EEG in Computational Psychiatry	Udesh HABARADUWA, Marijn VAN WINGERDEN, Julia POTTKÄMPER
32	Semantic Search in Olympiad Math Problems	Erbol ESENGULOV, Filip ILIEVSKI
33	"Where is AI being written?" – A geographic and epistemic meta-analysis of scientific literature	Vlad MORAR, Filip ILIEVSKI
34	CrackGNN: Revealing a Crack Severity Manifold	Shantanu MOTIANI, Maarten C. STOL
35	Explaining cooperation in multi-agent reinforcement learning	Loïc CORDEIRO FONSECA, Yannick MOLINGHEN, Tom LENAERTS

# POSTERS

Poster n°	Title	Authors
36	Landmark and Compare: Addressing the Algorithm Selection Problem via Problem Space Similarity	V. KODDERITZSCH, J. BURGER, A. van DELDEN, J. D. KARCH
37	Feature-level Fusion of 2D Images and 3D LiDAR Point Clouds for Semantic Segmentation	Andrey NIKOLOV, Muhammad Shoaib SARWAR, Faizan AHMED
38	Effective Diversification of Multi-Carousel Book Recommendation	Daniël WILTEN, Gideon MAILLETTE DE BUY WENNIGER, Arjen HOMMERSOM, Paul LUCASSEN, Emiel POORTMAN
39	Active learning using Hamiltonian Monte Carlo	Ward JANSSENS, Adam ARANY, Hannah Rosa FRIESACHER
40	Gender and Ethnicity Bias Mitigation in Automatic Recruitment	Angela PETKOVA, Farnaz Faramarzi LIGHVAN, Lynn HOUTHUYS
41	Explainable RL Policies by Distilling to Locally-Specialized Linear Policies with Voronoi State Partitioning	Senne DEPROOST, Denis STECKELMACHER, Ann NOWE
42	Towards Explainable AI: Reasoning With Controlled Natural Language	Sofia GAVASI, Nico ROOS
43	Modeling and Predicting Agent Trajectory in Urban Road Networks	Julien BAUDRU, Hugues BERSINI
44	Performance Metrics for Multilabel Emotion Classification: Comparing Micro, Macro, and Weighted F1-Scores	Maria Cristina HINOJOSA LEE, Johan BRAET, Johan SPRINGAEL
45	Enhancing Lungs Tumor Detection with Generative Models	Pietro PICCHIONE, Robin GHYSELINCK, Benoit FRÉNAY, Bruno DUMAS
46	Towards Efficient GNN-Based Phishing Detection from HTML Source Code	Warre HOFMANS, Wei WEI, Simon VANNESTE, Kevin METS

## Demonstrations: Wednesday 17h30 - 19h30

Title	Authors
Demonstration of Cross-Subject Hand Gesture Recognition from EMG	Martin COLOT, Cédric SIMAR, Ana Maria CEBOLLA ALVAREZ, Gianluca BONTEMPI



*Committed to international cooperation and development, UNamur maintains numerous collaborations with a number of institutions around the world. These collaborations take the form of research projects, teaching or training assignments, or student training as part of UNamur's teaching offer or as part of short-term internships, particularly research internships.*

*Do you want to come to UNamur as part of an exchange program? UNamur's International Relations Department (SRI) is at your disposal to help you organize your exchange stay and throughout your time at the university. You will find all the useful information concerning the administrative procedures to be planned for study stays within the framework of a bilateral agreement established between your home university and UNamur. [<https://www.unamur.be/en/international/mobility/in/exchange-students>].*

## BIOGRAPHY



**Anna ROGERS** is an Associate Professor at the IT University of Copenhagen. Her main research area is analysis and evaluation of pre-trained language models, as well as their sociotechnical impacts. Anna currently serves as an editor-in-chief of ACL Rolling Review, the peer review platform for all major NLP conferences organized by the Association for Computational Linguistics.

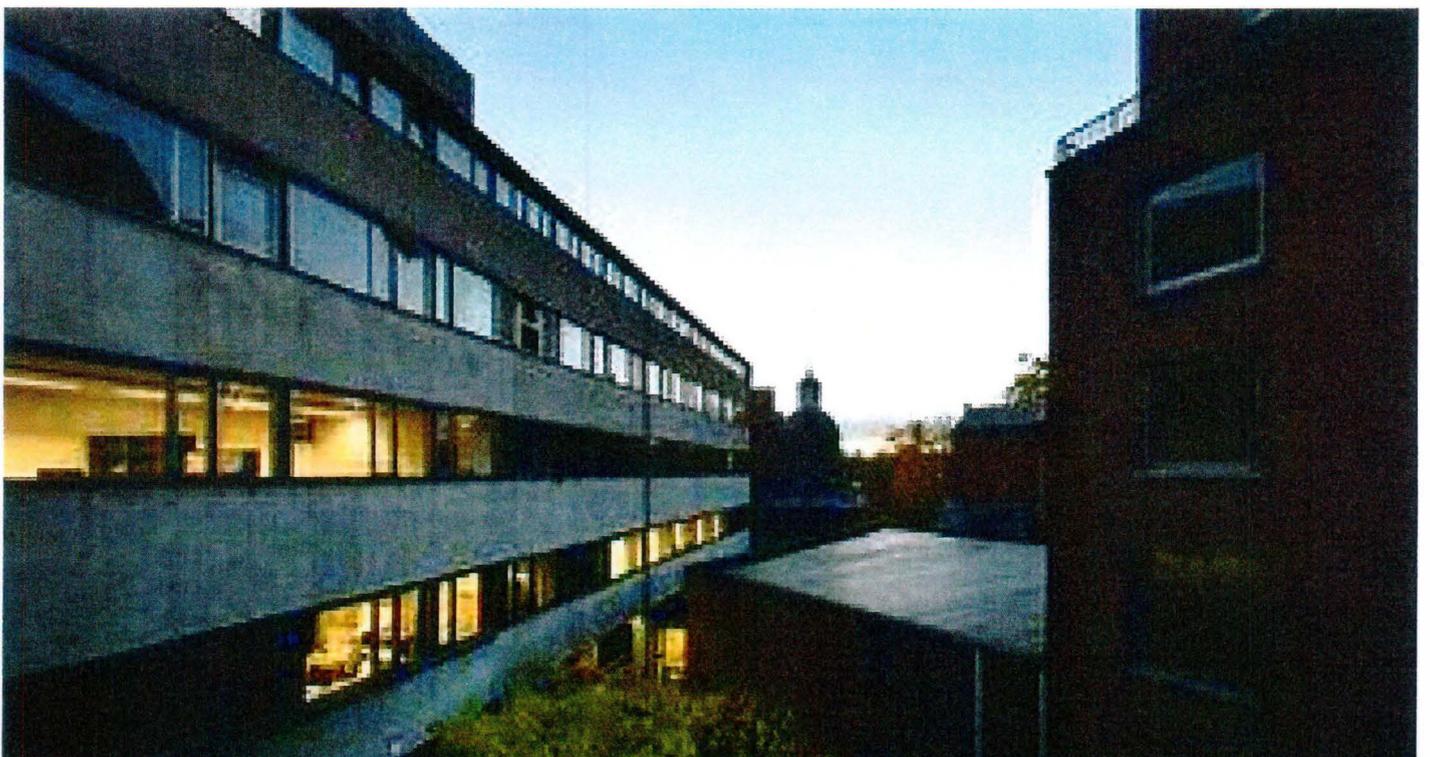


**Decebal Constantin MOCANU** is Associate Professor in Machine Learning within the Department of Computer Science at the University of Luxembourg, where he leads the Blue Neural Networks group. He is also a Guest Faculty Member within the Mathematics and Computer Science department at the Eindhoven University of Technology (TU/e) and an alumni member of TU/e's Young Academy of Engineering. Previously, he worked as an Assistant Professor in Machine Learning at TU/e (2017-2020) and at the University of Twente (2020-2023). In 2017, Decebal received his PhD degree from TU/e. During his doctoral studies and afterward, Decebal undertook four research visits: at the University of Pennsylvania (2014), Julius Maximilians University of Würzburg (2015), the University of Texas at Austin (2016), and the University of Alberta (2022). In the long term, Decebal is interested in studying the synergy between artificial intelligence, neuroscience, and network science for the benefit of science and society.



▲ *Anchored on a particularly impressive rocky spur, this exceptional heritage site has been able to preserve traces of each period of its 2000-year history. The Citadel of Namur is today a mecca for events and walks in a green setting offering spectacular views of the city*

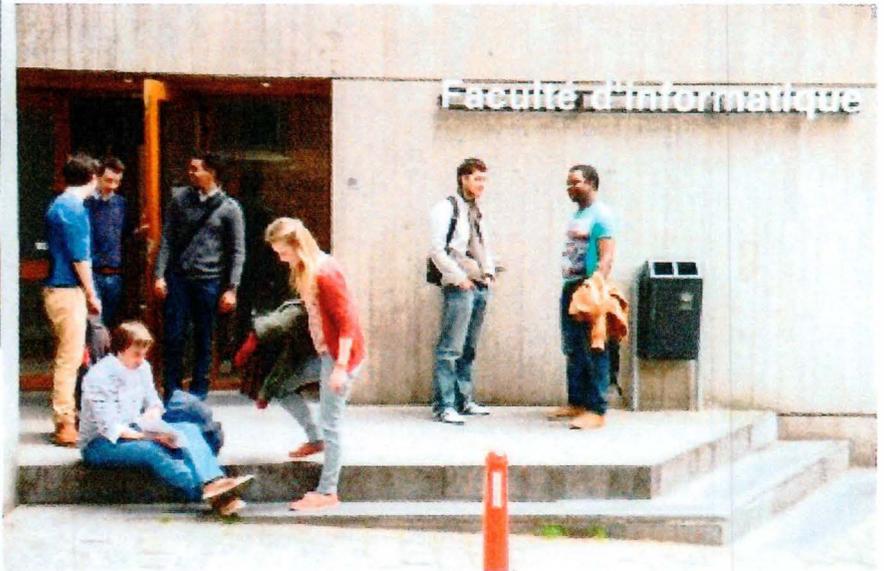
▼ *The main campus of UNamur is located at the heart of the city of Namur, capital of Wallonia. The main university campus includes the university building, the seven faculties and the University Library Moretus Plantin.*





**Informatics at the service of collective well-being and personal development.**

**The Faculty of Computer Science** has a vision of a world in which the intensive and growing use of informatics is oriented towards collective well-being and personal development. Its mission is to contribute to this orientation through education, scientific research and service to society.



## STUDY PROGRAMMES

When you choose to study computer science, you're guaranteed immediate access to an exciting, multi-faceted career. Through a comprehensive range of courses - bachelor's, master's, specialization master's and doctorate - the Faculty of Computer Science offers you quality training based on scientific rigor and critical thinking, while emphasizing interdisciplinarity and societal responsibility.

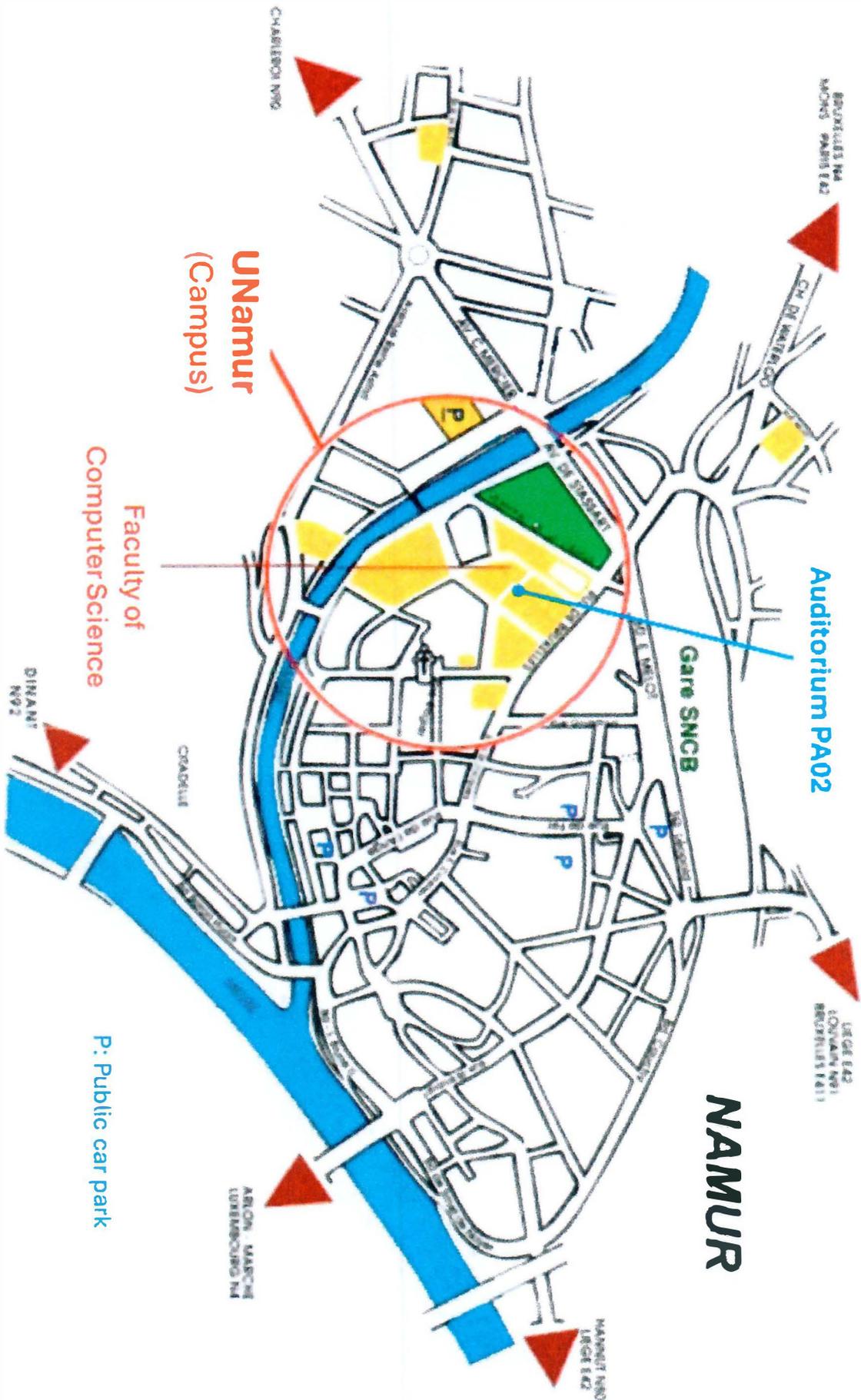
## RESEARCH

The mission of the Faculty of Computer Science is to ensure cutting-edge scientific research, open to the creation and integration of knowledge that feeds teaching, technological innovation and societal debate.

## SERVICE TO SOCIETY

The Faculty of Computer Science contributes to the development of our social, economic, technological and political environment by disseminating knowledge and providing advice at regional, national and international levels. Through the synergy between researchers and industry, and by making knowledge and know-how available, it participates in numerous missions of service to society.

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