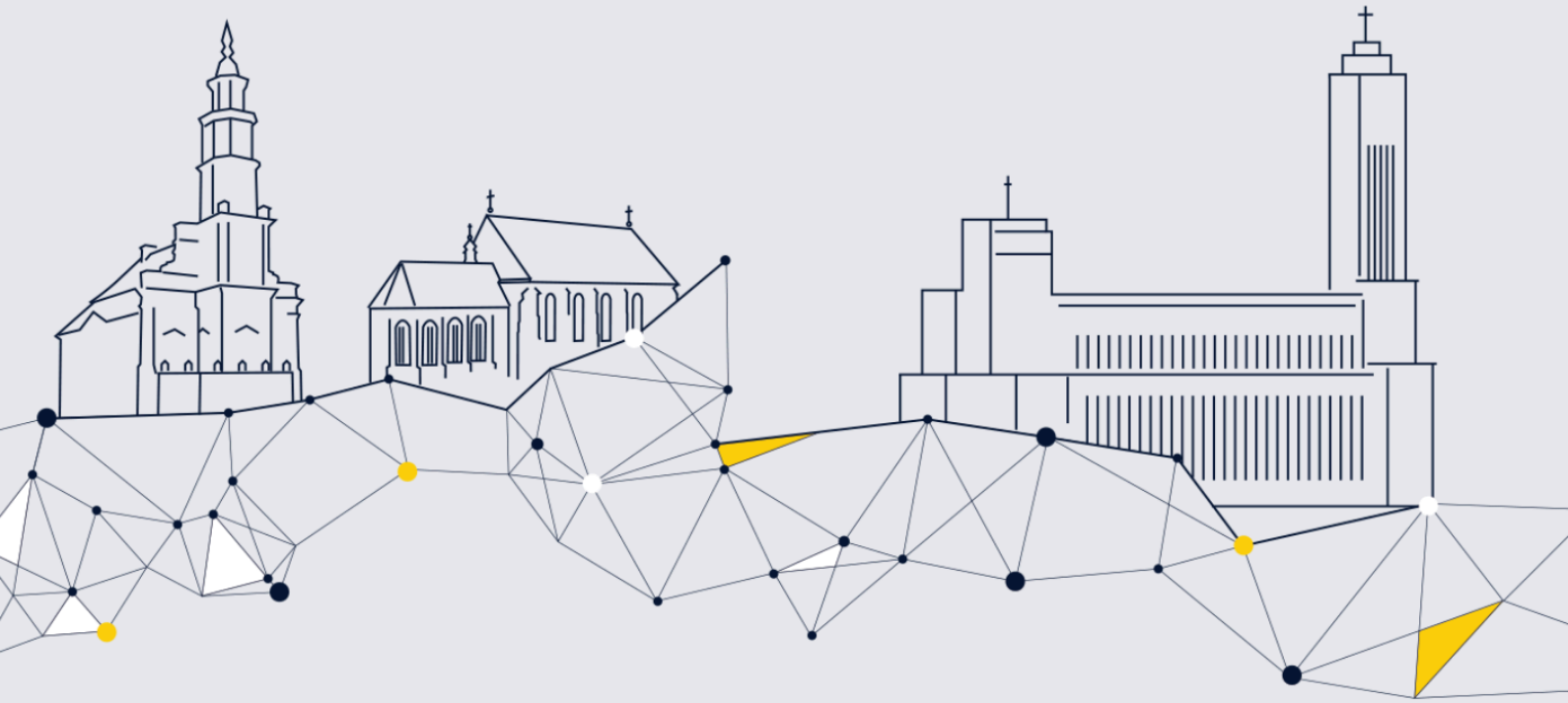
ICANN25

34th International Conference on Artificial Neural Networks

September 9-12, 2025
Kaunas, Lithuania

PROGRAM



General Chairs:

Yoshua Bengio (Université de Montréal, Canada)
Viktor Jirsa (Aix-Marseille Université, France; EBRAINS CSO)

Program Chairs:

Walter Senn (University of Bern, Switzerland)
Alessandro Villa (University of Lausanne, Switzerland)
Igor Tetko (Helmholtz Munich, Germany)
Marcello Sanguineti (University of Genoa, Italy)
Ausra Saudargiene (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Local Organizers:

Ausra Saudargiene (Lithuanian University of Health Sciences, Kaunas, Lithuania)
Linas Petkevičius (Vilnius University, Vilnius; Artificial intelligence Association of Lithuania)

https://e-nns.org/icann2025/

Tuesday, 9 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas, Lithuania

8.00 - 19.30	**Registration**	
9.00 - 10.30	**Tutorials**	
	The Virtual Brain Spase Petkoski (Aix-Marseille University, France) Senate Hall	***Dynamic Field Theory*** Gregor Schöner (Ruhr-Universität Bochum, Germany) 102 auditorium
10.30 - 11.00	**Coffee Break**	
11.00 - 12.00	**Tutorials**	
	The Virtual Brain Marmaduke Woodman (Aix-Marseille University, France) Senate Hall	***Dynamic Field Theory*** Gregor Schöner (Ruhr-Universität Bochum, Germany) 102 auditorium
12.00 - 13.00	**Lunch**	
13.00 - 15.00	**Tutorials**	
	GFlownets Emmanuel Bengio (Valence Labs/Recursion, Canada) Senate Hall	***Simulated Bayesian Inference*** Michael Deistler (Machine Learning in Science, University of Tübingen, Germany) 102 auditorium
15.00 - 15.30	**Coffee Break**	
15:30 - 17.00	**Tutorials**	
	GFlownets Emmanuel Bengio (Valence Labs/Recursion, Canada) Senate Hall	***Simulation-based Bayesian Inference*** Michael Deistler (Machine Learning in Science, University of Tübingen, Germany) 102 auditorium
17.00 - 17.30	**Coffee Break**	
17.30 - 18.00	**Opening and Welcome (Senate Hall)** Stefan Wermter (President of the European Neural Network Society) Juozas Augutis (Rector of Vytautas Magnus University)	
18.00 - 19.00	**Opening Keynote Lecture on AI Extracting Causality (Senate Hall)** Chair: Stefan Wermter	
	Causal Representations, World Models and Digital Twins Bernhard Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen, Germany)	
19.00 - 21.00	**Concert & Welcoming Reception at Vytautas Magnus University (Lobby)**	

Wednesday, 10 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

7.30 - 18.30	**Registration & Coffee**
8.30 - 9.00	**Opening and Welcome (Senate Hall)**
	Viktor Jirsa (EBRAINS Chief Science Officer) Rimantas Benetis (Rector of Lithuanian University of Health Sciences, LSMU) Arimantas Tamašauskas (Director of Neuroscience Institute, LSMU)
9.00 - 10.00	**Keynote Lecture on Neuroscience and Whole Brain Simulations**
	Virtual Brain Twins for Health and Disease Viktor Jirsa (Aix-Marseille University, France) Senate Hall
10.00 - 10.30	**Coffee Break**
10.30 - 12.00	**Invited Talks EBRAINS Morning Session** Chair: Igor Farkas
10.30 - 11.15	***Teacher Propagation Through Space, Time and the Brain*** Mihai Petrovici (NeuroTMA Lab, University of Bern, Switzerland)
11.15 - 12:00	***Engineering Brain Activity Patterns for Therapeutics*** Mehmet Fatih Yanik (ETH Zurich, Switzerland, remote) Senate Hall
12.00 - 13.00	**Lunch**
13.00 - 15.00	**Public Keynote Lecture & Panel Discussion** Chair: Mihai Petrovici
13.00 - 14.00	**Public Keynote Lecture on Ethics in AI & Neuroscience** ***Neuroscience and AI for a Flourishing Life*** Christiane Woopen (University of Bonn, Germany)
14.00 - 15.00	**Public Panel Discussion** **Where does AI lead to? Opportunities and Risks** Bernhard Schölkopf, Christiane Woopen, Viktor Jirsa, Gintare Dziugaite, Yoshua Bengio (remote) Senate Hall
15.00 - 15.30	**Coffee Break**
15.30 - 17.00	**Invited talks AI Afternoon Session** Chair: Igor Tetko
15.30 - 16.00	***Building Mechanistic Models of Neural Computations with Simulation-based Machine Learning*** Michael Deistler (Machine Learning in Science, University of Tübingen, Germany)
16.00 - 16.30	***Scalable Strategies for AI Oversight of AI - Progress, Pitfalls and Path Forward*** Ameya Pandurang Prabh (Tübingen AI Center, University of Tübingen, Germany)
16.30 - 17.00	***Embodied Reasoning in the Physical World*** Ignas Budvytis (University of Cambridge, UK) Senate Hall
17.00 - 19.00	**Poster Sessions & Coffee (Lobby)**
17.00 - 17.50	**Poster Session 1**
18.00 - 18.50	**Poster Session 2**
20.00 - 22.00	**Gala Dinner at Monte Pacis (Busses will leave at 19:30; Meeting point: outside the entrance of the venue)**

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

8.00 - 18.30	**Registration**			
9.00 - 11. 00	**Keynote Lectures on AI (Senate Hall)** Chair: Vera Kurkova			
9.00 - 10.00	***AI and Generative Models*** Emmanuel Bengio (Valence Labs/Recursion, Canada)			
10.00 - 11.00	***Remembering and Forgetting: The Antithetical Roles of Linear Mode Connectivity*** Gintare Dziugaite (DeepMind, USA)			
11.00 - 11.30	**Coffee Break**			
11:30 - 13.00	**Parallel Sessions & Workshops**			
	Parallel Session 1 ***Foundations and Advances in Neural Network Architectures*** Senate Hall	Parallel Session 2 **Robustness, Generalization, and Out - of-Distribution Learning** 102 auditorium	Workshop 1 ***AI in Drug Discovery*** Igor Tetko (Helmholtz Munich, Germany) 401 auditorium	
13.00 - 14.00	**Lunch**			
14.00 - 15:30	**Parallel Sessions & Workshops**			
	Parallel Session 3 ***Symbolic Reasoning, Explainability, and Structured Systems*** Senate Hall	Parallel Session 4 ***Reinforcement Learning and Control Systems*** 102 auditorium	Workshop 2 ***AI in Drug Discovery*** Igor Tetko (Helmholtz Munich, Germany) 401 auditorium	Workshop 3 ***Special Session Neural Networks for Graphs and Beyond*** 403 auditorium
15.30 - 16.00	**Coffee Break**			
16.00 - 17.00	**Parallel Sessions & Workshops**			
	Parallel Session 5 ***Spiking and Neuromorphic Intelligence*** Senate Hall	Parallel Session 6 ***Scientific and Physics-Informed Machine Learning*** 102 auditorium	Workshop 4 ***Special Session Neural Networks for Graphs and Beyond*** 403 auditorium	
17.00 - 18.00	**Keynote Lecture on AI (Senate Hall)** Chair: Alessandro Villa			
	A Journey through Efficient Deep Learning on Graphs Alessio Micheli (University of Pisa, Italy)			
18.00 – 19.00	**European Neural Network Society ENNS General Assembly Meeting* / Best Paper Award (Senate Hall)**			
20.00	**Sport Activities at Zalgirio Arena**		**DEI Social (venue TBC)**	

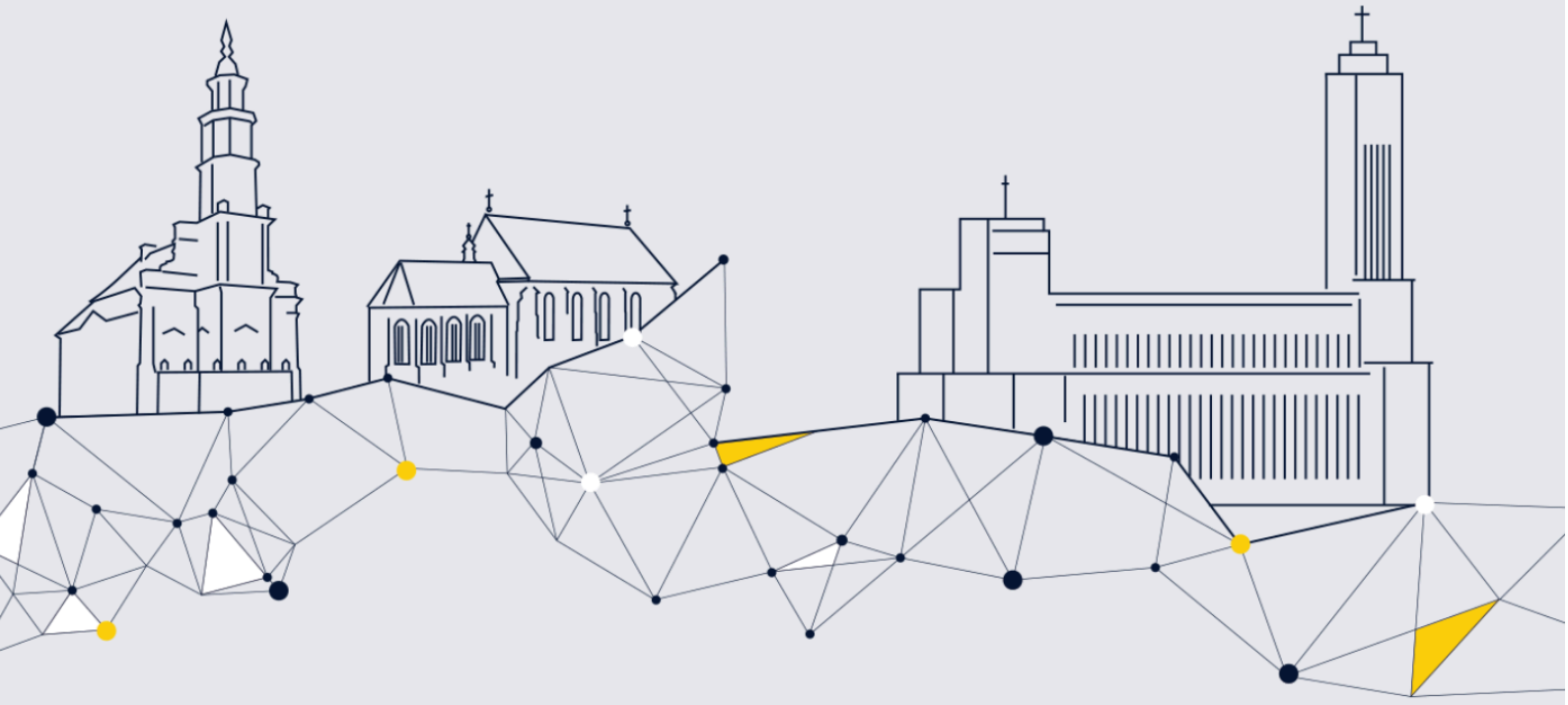
*For all persons registered to ICANN 2025

Friday, 12 September 2025

Lithuanian University of Health Sciences, Sukilėlių str. 13, Kaunas, Lithuania

9.00 - 16.00	**Registration**	
10.00 - 12.00	**Workshops**	
	3rd International Workshop on Reservoir Computing Domenico Tortorella (University of Pisa, Italy) A-204 auditorium	***Special Session on Neurorobotics*** Kristina Malinovska (Comenius University in Bratislava, Slovakia) A-205 auditorium
12.00 - 13.00	**Lunch Break**	
13.00 - 15.00	**Workshops**	
	3rd International Workshop on Reservoir Computing Domenico Tortorella (University of Pisa, Italy) A-204 auditorium	***Special Session on Neurorobotics*** Kristina Malinovska (Comenius University in Bratislava, Slovakia) A-205 auditorium
15.00 - 16.00	**Closing Remarks and Farewell** A-205 auditorium	

PARALLEL SESSIONS & WORKSHOPS



Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

11.30 - 13:00	**Parallel Session 1** ***Foundations and Advances in Neural Network Architectures*** Senate Hall
11.30 - 11.42	*Unrolled Neural Adaptive Alternating Gradient Descent for NMF* Toshimitsu Aritake (Hitotsubashi University)
11.42 - 11.54	*The Power of Max Pooling Layer* Jiri Sima (Institute of Computer Science of the Czech Academy of Sciences); Jeremie Cabessa (DAVID Laboratory, UVSQ - University Paris-Saclay)
11.54 - 12.06	*MTL-SIMNAS: Task Similarity-Driven Neural Architecture Search for Enhanced Multi-Task Learning* Quinten Danneels (KU Leuven); Mathias Verbeke (KU Leuven)
12.06 - 12.18	*Classification of large data sets by neural networks: A probabilistic viewpoint* **Marcello Sanguineti** (University of Genova); Vera Kurkova (Academy if Sciences of the Czech Republic)
12.18 - 12.30	*An Enhanced Dual-Stream Architecture \\ for State-of-the-Art \\ Artist and Style Classification* Doron Nevo (Bar-Ilan Univ.), Eli David (Bar-Ilan Univ.), and Nathan Netanyahu (Bar-Ilan Univ.)
12.30 - 12.42	*Regularised Loss Function for Goal Recognition as a Deep Learning Task* Matteo Olivato (University of Brescia)
12.42 - 12.54	*Time Series Generation for Augmenting Multi-Channel Automotive Audio Data* Philipp Engler (German Research Center for Artificial Intelligence (DFKI)); Ludger van Elst (German Research Center for Artificial Intelligence (DFKI)); Peter Schichtel (Ingenieurgesellschaft Auto und Verkehr (IAV) GmbH); Sheraz Ahmed (German Research Center for Artificial Intelligence (DFKI)); Andreas Dengel (German Research Center for Artificial Intelligence (DFKI))

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

11.30 - 13:00	**Parallel Session 2** ***Robustness, Generalization, and Out - of-Distribution Learning*** 102 auditorium
11.30 - 11.45	*PaRCE: Probabilistic and Reconstruction-based Competency Estimation for CNN-based Image Classification.* **Sara Pohland** (UC Berkeley); **Claire Tomlin** (UC Berkeley)
11.45 - 12.00	*Beran Estimator Kernel Learning using Nearest-Neighbours and its Application to Reliability Analysis.* Danilo Jodas (São Paulo State University); Christian Barry (São Paulo State University); Guilherme Martins (São Paulo State University); Marcos Santana (São Paulo State University); Andre Abrego (CENPES/PETROBRAS); Danilo Colombo (CENPES/PETROBRAS); João Papa (São Paulo State University)
12.00 - 12.15	*How Inductive Biases Affect OOD Generalization: An Investigation in Formal Language Recognition with Autoregressive Models.* John Mitros (UCD)
12.15 - 12.30	*D2R: Dual Regularization Loss with Collaborative Adversarial Generation for Model Robustness.* Zhenyu Liu (Newcastle University); Huizhi Liang (Newcastle University); Rajiv Ranjan (Newcastle University); Zhanxing Zhu (University of Southampton); Vaclav Snasel (Technical University of Ostrava); Varun Ojha (Newcastle University)
12.30 - 12.45	*Uncertainty Quantification in Video Distortion Classification under Dataset Shift.* Riestiya Zain Fadillah (NTNU); Seyed Ali Amirshahi (NTNU); Marius Pedersen (NTNU); Azeddine Beghdadi (University Sorbonne Paris Nord)
12.45 - 13.00	*XOOD: A Self-Supervised Algorithm for Detecting Out-of-Distribution Data for Image Classification* Frej Berglind (Louisiana State University); Magesh Rajasekaran (Louisiana State University); Md Saiful Sajol (Louisiana State University); Haron Temam (Louisiana State University); Supratik Mukhopadhyay (Louisiana State University); Kamalika Das (Intuit Inc.); Sricharan Kumar (Intuit Inc.); Kumar Kallurupalli (Intuit Inc.)

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

11.30 - 13:00	**Workshop 1** ***AI in Drug Discovery*** Igor Tetko (Helmholtz Munich, Germany) 401 auditorium

Programme

11:30 "Early-stage Discovery in the Era of Hard-to-Drug Targets and Giga-scale Chemical Spaces", Dmitri Kireev
12:00 "Towards Realistic and Accurate Binding Pose Prediction", Eric Alcaide
12:15 "Comparative Analysis of Chemical Structure String Representations for Neural Machine Translation Using Transformers", Kohulan Rajan
12:30 "Interpreting Graph Neural Networks with Myerson Values for Cheminformatics Approaches", Malte Modlich
12:45 "Dimension-augmented anisotropy in Graph Neural Diffusion", Ivan Smolyar

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

14.00 - 15:30	**Parallel Session 3** ***Symbolic Reasoning, Explainability, and Structured Systems*** Senate Hall
14.00 - 14.12	*Small transformer architectures for task switching* **Claudius Gros** (Goethe University Frankfurt)
14.12 - 14.24	*RDGE-6D: Reverse Direction Geometry Injection for 6D Pose Estimation* Xinguo He (Chair of Media Technology, TUM School of Computation, Information and Technology, Technical University of Munich); Rahul Chaudhari (Technical University of Munich)
14.24 - 14.36	*ConSens: Assessing context grounding in open-book question answering* Ivan Vankov (iris.ai); Matyo Ivanov (iris.ai); Adriana Correia (iris.ai); Victor Botev (iris.ai)
14.36 - 14.48	*Can LLM-Generated Textual Explanations Enhance Model Classification Performance? An Empirical Study* Mahdi Dhaini (Technical University of Munich); Juraj Vladika (Technical University of Munich); Ege Erdogan (Technical University of Munich); Zineb Attaoui (Technical University of Munich); Gjergji Kasneci (Technical University of Munich)
14.48 - 15.00	*Correcting the Modified Stochastic Synaptic Model of Synaptic Dynamics - Refinement of Vesicle and Neurotransmitters Functions* Ferney Beltran-Velandia (Leipzig University); Nico Scherf (Max Planck Institute for Cognitive and Brain Sciences); Martin Bogdan (Leipzig University)
15.00 - 15.12	*Robustness Verification for Object Detectors using Set-Based Reachability Analysis* Sayak Chowdhury (International Institute of Information Technology, Bangalore); Hardik Khandelwal (International Institute of Information Technology, Bangalore); Meenakshi D'Souza (International Institute of Information Technology, Bangalore)
15.12 - 15.24	*Identification and Realization of a Class of Discrete Event Systems by Neural Networks -Timed Petri Nets* Yasuaki Kuroe (Kansai University)

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

14.00 - 15:30	**Parallel Session 4** ***Reinforcement Learning and Control Systems*** 102 auditorium
14.00 - 14.15	*Learning to Optimize Entropy in the Soft Actor-Critic.* Zhilei Zhou (Dalhousie University); Malcolm Heywood (Dalhousie University)
14.15 - 14.30	*Evolving Spatially Embedded Recurrent Spiking Neural Networks for Control Tasks.* Alexandru Vasilache (FZI Research Center for Information Technology); Jona Scholz (Karlsruhe Institute of Technology); Yulia Sandamirskaya (ZHAW Zurich University of Applied Sciences); Jürgen Becker (Karlsruhe Institute of Technology)
14.30 - 14.45	*Proactive Depot Discovery: A Generative DRL Framework for Adaptive Location-Routing.* Site Qu (Nanyang Technological University); Guoqiang Hu (Nanyang Technological University)
14.45 - 15.00	*Evaluating the Impact of Data Curation on Off-Policy Reinforcement Learning.* Matthias Blum (University of Tuebingen); Shahram Eivazi (University of Tuebingen)
15.00 - 15.15	*A Spiking Central Pattern Generator Capable of Adaptive Gait Control in Quadruped Locomotion.* Narumitsu Ikeda (Mitsubishi Electric Corporation)
15.15 – 15:30	*Accelerating Spatiotemporal Learning with minConvRNNs.* Cosku Horuz (University of Lübeck); Sebastian Otte (University of Lübeck); Martin Butz (University of Tübingen); Matthias Karlbauer (University of Tübingen)

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

14.00 - 15:30	Parallel Sessions & Workshops
	Workshop 2 ***AI in Drug Discovery*** Igor Tetko (Helmholtz Munich, Germany) 401 auditorium
14:00 "A cost-effective deep-learning method for extraction of single and multi-stage organic synthesis procedures", Mantas Vaškevičius 14:15 "Protein content-based microbial representations improve predictions of antimicrobial activity", Roberto Olayo Alarcon 14:30 "MARCUS: A Multimodal AI Platform for Chemical Structure Extraction and Analysis from Scientific Literature", Kohulan Rajan 14:45 "Consensus prediction of chemical reactions with OCHEM-R platform", Igor Tetko Poster: "MolEncoder: Improved Masked Language Modeling for Molecules", Fabian Krüger Poster: "ADMETrix: ADMET-Driven De Novo Molecular Generation", Nikolaos Mourdoukoutas	
14.00 - 15:30	**Workshop 3** ***Special Session Neural Networks for Graphs and Beyond*** 403 auditorium
14:00-14:20 **Guided Molecular Generation through Logical Constraints.** Paolo Frazzetto, Nicolò Navarin, Emma Meneghini. 14:20-14:40 **HeNCler: Node Clustering in Heterophilous Graphs via Learned Asymmetric Similarity.** Sonny Achten, Zander Op de Beeck, Francesco Tonin, Volkan Cevher, Johan Suykens. 14:40-15:00 **Visualization and Analysis of the Loss Landscape in Graph Neural Networks.** Samir Moustafa, Lorenz Kummer, Simon Fetzel, Nils Kriege, Wilfried Gansterer. 15:00-15:20 **Towards an Investigation of Over-Squashing in Temporal Graph Neural Networks.** Domenico Tortorella, Alessio Micheli.	

Thursday, 11 September 2025

15.45 - 17:00	**Parallel Session 5** ***Spiking and Neuromorphic Intelligence*** Senate Hall
15.45 - 16.00	*Efficient Learning in Spiking Neural Networks - Introducing Feedback Alignment to the Reinforced Liquid State Machine*
16.00 - 16.15	*Firing rates and representational error in efficient spiking networks are bounded by design.* Matin Urdu (University Clinic Hamburg-Eppendorf); Gabriel Matias Lorenz (University Clinic Hamburg-Eppendorf); Ching-Peng Huang (University Clinic Hamburg-Eppendorf); Stefano Panzeri (University Clinic Hamburg-Eppendorf); Veronika Koren (University Clinic Hamburg-Eppendorf)
16.15 - 16.30	*Continuous representation of tactile information achieved by unsupervised liquid state machine.* Katsunori Kitano (Ritsumeikan University); Seiya Ebina (Ritsumeikan University); Mitsuhito Ando (Ritsumeikan University); Haruo Noma (Ritsumeikan University)
16.30 - 16.45	*Full Integer Arithmetic Online Training for Spiking Neural Networks.* **Ismael Gome**z (Maastricht University); Guangzhi Tang (Maastricht University)
16.45 - 17.00	*Evaluating distributed storage mechanisms in a constructive model of associative memory.* Matej Fandl (Centre for Cognitive Science, Comenius University); Martin Takáč (Centre for Cognitive Science, Comenius University)

Thursday, 11 September 2025

Vytautas Magnus University, Daukanto str. 28, Kaunas

16.00 - 17.00	**Parallel Session 6** ***Scientific and Physics-Informed Machine Learning*** 102 auditorium
16.00 - 16.15	*Studying the Generalization Behavior of Surrogate Models for Punch-Bending by Generating Plausible Counterfactuals.* Andreas Mazur (Bielefeld University, Center for Cognitive Interaction Technology (CITEC)); Henning Peters (Fraunhofer Institute for Mechatronic Systems Design (IEM)); André Artelt (Bielefeld University, Center for Cognitive Interaction Technology (CITEC)); Lukas Koller (Technical University of Munich, Professorship of Cyber Physical Systems (Prof. Althoff)); Christoph Hartmann (Institute of Metal Forming and Casting (UTG)); Ansgar Trächtler (Fraunhofer Institute for Mechatronic Systems Design (IEM)); Barbara Hammer (Bielefeld University, Center for Cognitive Interaction Technology (CITEC))
16.15 - 16.30	*Sensor-Enhanced PINNs for Contaminant Dispersion Modeling.* Zhijing Feng (Singapore Institute of Technology); Zhijing Feng (Singapore Institute of Technology)
16.30 - 16.45	*Improving physics-informed neural network extrapolation via transfer learning and adaptive activation functions.* Alexandra Stavrianidi (Stanford University); Athanasios Papastathopoulos-Katsaros (Baylor College of Medicine); Zhandong Liu (Baylor College of Medicine)
16.45 - 17.00	*A Fokker-Planck Perspective on the Flow of Information in Continuous Memory Neural Networks.* **Roseli Wedemann** (Universidade do Estado do Rio de Janeiro); Angel Ricardo Plastino (Universidad Nacional del Noroeste de la Provincia de Buenos Aires)

Friday, 12 September 2025

Lithuanian University of Health Sciences, Sukilėlių str. 13, Kaunas, Lithuania

10.00 - 15:00	**Workshop 1** ***The 3rd International Workshop on Reservoir Computing (RC 2025)*** A-204 auditorium

Morning session - Fri. 12th September

- 10:00-10:10 **Welcome**
- 10:10-11:00 **Invited talk** "Perspectives *on* and *of* Reservoir Computing" by **Mantas Lukoševičius**
- 11:00-11:20 Oral presentation: **Benchmarking nonlinear readouts in Linear Reservoir Networks.** Giacomo Lagomarsini, Andrea Ceni, Claudio Gallicchio.
- 11:20-11:40 Oral presentation: **The Impact of Readout Strategies on the Memory Capacity of Reservoir Networks.** Denis Kleyko, Martin Nilsson.
- 11:40-12:00 Oral presentation: **Investigating Time-Scales in Deep Echo State Networks for Natural Language Processing.** Corrado Baccheschi, Alessandro Bondielli, Alessandro Lenci, Alessio Micheli, Lucia Passaro, Marco Podda, Domenico Tortorella.

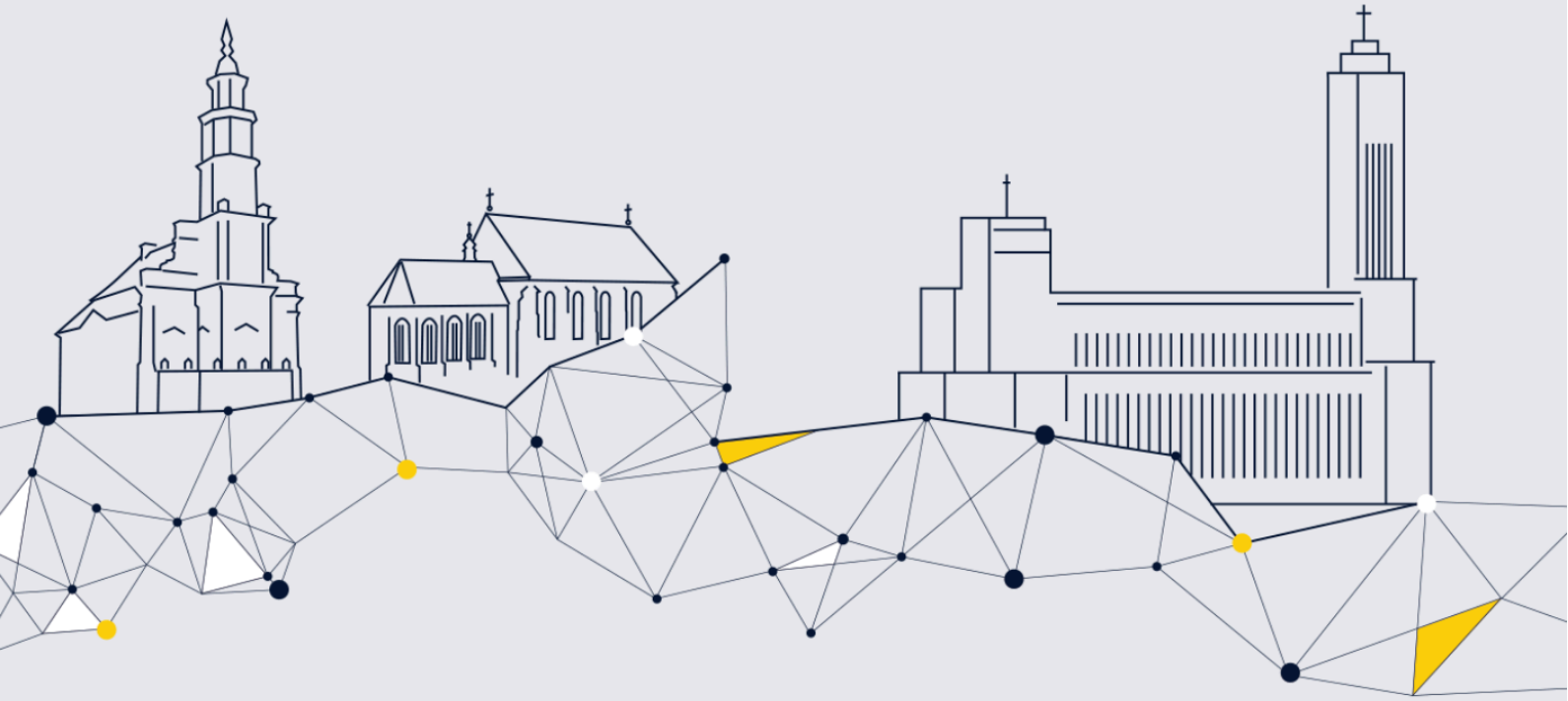
Afternoon session - Fri. 12th September

- 13:00-14:20 Oral presentation: **Impact of Plasticity-Based Reservoir Adaptation on Spectral Radius and Performance of ESNs.** Franziska Weber.
- 13:20-13:40 Oral presentation: **A Spectral Interpretation of Redundancy in a Graph Reservoir.** Anna Bison, Alessandro Sperduti.
- 13:40-14:00 Oral presentation: **Shaping Attractor Landscapes in Boolean Liquid State Machines via STDP and Global Plasticity.** Jérémie Cabessa, Alessandro Villa.
- 14:00-14:50 **Tutorial on ReservoirPy.** Presented by **Xavier Hinaut**.
- 14:50-15:00 **Concluding remarks**

10.00 - 15:00	**Workshop** ***Special Session on Neurorobotics*** A-205 auditorium
10.00 - 10.15	Opening words *Stefan Wermter (University of Hamburg) and Igor Farkaš (Comenius University Bratislava)*
10.15 - 11.00	Three years of TERAIS project: research outcomes and reflection *Kristína Malinovská (Comenius University Bratislava) and Igor Farkaš (Comenius University Bratislava)*
11.00 - 11.20	Generating and Customizing Robotic Arm Trajectories using Neural Networks *Andrej Lúčny (Comenius University Bratislava)*
11.20 - 11.40	Robotic Calibration Based on Haptic Feedback Improves Sim-to-Real Transfer *Igor Farkaš (Comenius University Bratislava)*

13.00 - 15:00	Workshop 6 ***Special Session on Neurorobotics*** A-205 auditorium
13.00 - 13.20	Pointing-Guided Target Estimation via Transformer-Based Attention *Luca Müller (University of Hamburg)*
13.20 - 13.40	Keypoint-based Diffusion for Robotic Motion Planning on the NICOL Robot *Lennart Clasmeier (University of Hamburg)*
13.40 - 14.00	Real-Time Syllable Recognition in LIBRAS Using Deep Learning for Human-Robot Interaction *Joelmir Ramos (Federal University of Rio de Janeiro)*
14.00 - 14.20	Towards Bio-Inspired Robotic Trajectory Planning via Self-Supervised RNN *Miroslav Cibula (Comenius University Bratislava)*
14.20 - 15.00	Closing and discussion *Kristína Malinovská (Comenius University Bratislava)*

POSTER SESSIONS



17.00 - 19.00 Poster Sessions & Coffee

Poster Session 1 (17:00 - 17:50)

No	Paper ID	Title	Authors
2	62	Understanding Image Classification Prediction with Any Segment Explanation	Vahidin Hasić (Faculty of Electrical Engineering, University of Sarajevo); Senka Krivić (Faculty of Electrical Engineering, University of Sarajevo)
3	128	Neural QSLIM for Mesh Autoencoders	Haoliang Zhang (University of Oklahoma); Xintong Li (Beijing University of Posts and Telecommunications); Jonghoon Kim (Chungnam National University); Samuel Cheng (University of Oklahoma); Christian El Amm (University of Oklahoma)
4	153	DelGrad: Exact event-based gradients in spiking networks for training delays and weights	Julian Goeltz (Heidelberg University, University of Bern)
5	155	Amortizing Personnalization in Virtual Brain Twins	Nina Baldy (Aix-Marseille Université); Marmaduke Woodman (Institut de Neurosciences des Systèmes Aix-Marseille Université); Viktor Jirsa (Institut de Neurosciences des Systèmes Aix-Marseille Université)
6	167	Stochastic Covariance Regularization for Imbalanced Datasets	Ahmet Erdem (Istanbul Technical University); Faik Boray Tek (Istanbul Technical University)
9	203	Backpropagation through space, time and the brain	Paul Haider (University of Bern); Benjamin Ellenberger (University of Bern); Jakob Jordan (University of Bern); Kevin Max (University of Bern); Ismael Jaras (University of Bern); Laura Kriener (University of Bern); Federico Benitez (University of Bern); Mihai A. Petrovici (University of Bern)
10	206	Weight transport through spike timing for robust local gradients	Timo Gierlich (University of Bern); Andreas Baumbach (Heidelberg University); Akos Kungl (Heidelberg University); Kevin Max (Okinawa Institute of Science and Technology); Mihai Petrovici (University of Bern)
12	291	The Explainability-Performance Coefficient: A New Metric for Model Transparency	Christian Oliva (Universidad Autónoma de Madrid); Luis F. Lago-Fernandez (Universidad Autónoma de Madrid)
13	298	NGAT: A Node-level Graph Attention Network for Long-term Stock Prediction	Yingjie Niu (University College Dublin); Mingchuan Zhao (Dublin City University); Valerio Poti (University College Dublin); Ruihai Dong (University College Dublin)
14	299	Continuous Fair SMOTE - Fairness-Aware Stream Learning from Imbalanced Data	Kathrin Lammers (Bielefeld University); Valerie Vaquet (Bielefeld University); Barbara Hammer (Bielefeld University)
15	307	Constrained Learnable Channel-wise Normalization for Single-Source Domain Generalization in Medical Image Segmentation	Haoyan Wu (Independent Researcher); Lu Zhang (Department of Computer Science, Georgia State University)

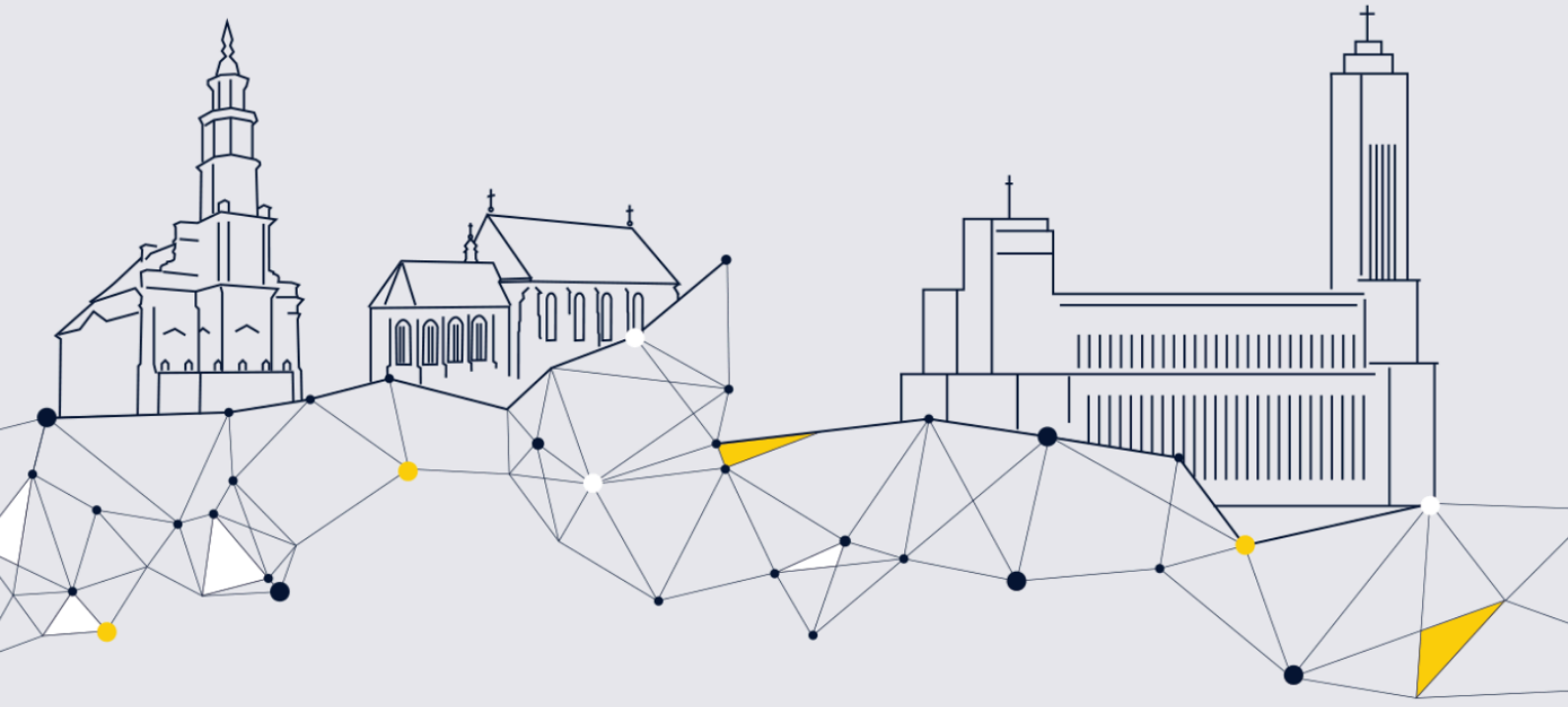
16	334	A Framework for Uncertainty Quantification Based on Nearest Neighbors Across Layers	Miguel N. Font (Universidad Autónoma de Madrid); José L. Jorro-Aragoneses (Universidad Autónoma de Madrid); Carlos M. Alaíz (Universidad Autónoma de Madrid)
17	345	VideoPCDNet: Video Parsing and Prediction with Phase Correlation Networks	Noel Jose Rodrigues Vicente (University of Bonn); Enrique Lehner (University of Bonn); Angel Villar-Corrales (University of Bonn); Jan Nogga (University of Bonn); Sven Behnke (University of Bonn)
18	352	Surrogate-Assisted Multi-Objective Design of Complex Multibody Systems	Augustina Amakor (TU Dortmund University); Manuel Berkemeier (TU Dortmund University); Sebastian Peitz (TU Dortmund University); Meike Wohlleben (Paderborn University); Walter Sextro (Paderborn University)

Poster Session 2 (18:00 - 18:50)

No	Paper ID	Title	Authors
19	355	Dimensionality Reduction of Protein Language Model Embeddings for Viral Clustering	Brendonas Stakauskas (Vilnius University)
20	369	Efficient ReliefF: A low-power optimization of ReliefF for resource-constrained devices	Samuel Suárez-Marcote (Universidade da Coruña); Laura Morán-Fernández (Universidade da Coruña); Verónica Bolón-Canedo (Universidade da Coruña)
21	370	Enhancing Adversarial Robustness through Multi-Objective Representation Learning	Sedjro Salomon Hotegni (TU Dortmund University); Sebastian Peitz (TU Dortmund University)
22	385	Prototype-Guided Local Spatial Attention for Model Explanation	Jingbo Yan (National Institute of Informatics); Seiji Yamada (National Institute of Informatics)
23	387	Effect of Neuromodulation on the Brain Dynamical Repertoire	Damien Depannemaecker (Aix-Marseille Université); Gabriele Casagrande (Aix-Marseille Université); Augustinas Povilas Fedaravicius (Neuroscience Institute, Lithuanian University of Health Sciences); Aušra Saudargienė (Neuroscience Institute, Lithuanian University of Health Sciences); Pierpaolo Sorrentino (Aix-Marseille Université); Viktor Jirsa (Aix-Marseille Université); Marisa Saggio (Aix-Marseille Université)
24	393	Sustainable techniques to improve Data Quality for training image-based explanatory models for Recommender Systems	Jorge Paz-Ruza (Universidade da Coruña); David Esteban-Martínez (Universidade da Coruña); Amparo Alonso-Betanzos (Universidade da Coruña); Bertha Guijarro-Berdiñas (Universidade da Coruña)
25	433	Real-time and personalized product recommendations for large e-commerce platforms	Matteo Tolloso (University of Pisa); Davide Bacciu (University of Pisa); Shahab Mokarizadeh (H&M); Marco Varesi (H&M)

27	440	ELiSe: Efficient Learning of Sequences in Structured Recurrent Networks	Laura Kriener (University of Zurich, ETH Zurich); Ben von Hünerbein (University of Bern); Kristin Völk (Catlab Engineering); Timo Gierlich (University of Bern); Arno Granier (University of Bern); Federico Benitez (University of Bern); Walter Senn (University of Bern); Mihai A. Petrovici (University of Bern)
28	442	Perpetual Generation: Online Learning of Linear State-Space Models from a Single Stream	Michele Casoni (University of Siena); Tommaso Guidi (University of Florence); Stefano Melacci (University of Siena); Alessandro Betti (IMT Scuola Alti Studi); Marco Gori (University of Siena)
30	450	Targeted trust-based merging of customers' opinions	Jurij Ružejnikov (Institute of Information Theory and Automation, Czech Academy of Sciences, Department of Adaptive Systems); Tatiana Guy (Institute of Information Theory and Automation, Czech Academy of Sciences, Department of Adaptive Systems)
31	456	A Scene Text Detection Method Based on Supervised Contrastive Learning	Huang Jinhong (MUST); Lianlei Shan (UCAS); Hongrong Yin (MUST)
32	465	Beyond Reconstruction: A Physics Based Neural Deferred Shader for Photo-realistic Rendering	Zhuo He (University of Glasgow); Paul Henderson (University of Glasgow); Nicolas Pugeault (University of Glasgow)
33	472	Merging versus Separating Replay Samples in Continual Learning	Andrii Krutsylo (Institute of Computer Science Polish Academy of Sciences)
34	482	Signal-to-noise difference as a correlate of class learning in neural networks	Benjamín Pascual Estrugo (Universitat Politècnica de València); Salva Ardid (Universitat Politècnica de València)
35	547	Complexity and Criticality in Neuro-Inspired Reservoirs	Michiel van der Vlag (Forschungszentrum Juelich); Alper Yegenoglu (Forschungszentrum Juelich); Cristian Jimenez-Romero (Paris Saclay University); Abigail Morrison (Forschungszentrum Juelich); Sandra Diaz (Forschungszentrum Juelich)
36	556	Modulation of Brain Activity via Deep Brain Stimulation in Parkinson's Disease Patients: Individualized EEG-based assessment	Gustavas Davidavičius (Vytautas Magnus University), Vytautas Kucinskas, Pierpaolo Sorrentino, Andrius Radziunas, Augustinas Fedaravicius, Ieva Puleikyte, Karolina Reinyte, and Ausra Saudargiene

VIRTUAL SESSION



No	Paper ID	Title	Authors
1	15	HARNet: Human Activity Recognition with Spatial-temporal Features	Jiguang Li (Northumbria University); Meryem Sena Şiltu (Queen Mary University of London); Meng Xu (university of international business and economics); Jiawei Li (King's College London); Zhao Huang (Northumbria University); Minglei Guan (Shenzhen Polytechnic University)
2	18	Wavelet-based Self-image Blending for More General Face Forgery Detection	Majun Zhang (Tongji University)
3	21	ACGCN: A Sequence-Attention-Based Graph Convolutional Model for Enhanced Recommendation Systems	Mingke Liao (Wuhan Institute of Technology); Feng Yao (Wuhan Institute of Technology); Yang Yang (Wuhan Institute of Technology)
4	33	HCNQA: Enhancing 3D Visual Question-Answering with Hierarchical Concentration Narrowing Supervision	Shengli Zhou (Southern University of Science and Technology); Jianuo Zhu (Southern University of Science and Technology); Qilin Huang (Southern University of Science and Technology); Fangjing Wang (Southern University of Science and Technology); Yanfu Zhang (College of William and Mary); Feng Zheng (Southern University of Science and Technology, Peng Cheng Laboratory)
5	35	Text-Image Encoder-based Contrastive Regression for AI-Generated Image Quality Assessment	Jiquan Yuan (Peking University); Xinyan Cao (Peking University); Linjing Cao (Peking University); Jinming Che (Peking University); Qinyuan Wang (Peking University); Wei Ren (Peking University); Jinlong Lin (Peking University); Xixin Cao (Peking University)
6	37	Deblurring with Improved Video Diffusion Model	Haoyang Long (Beijing University of Posts and Telecommunications); Bo Zhang (Beijing University of Posts and Telecommunications); Wufan Wang (Beijing University of Posts and Telecommunications); Zheng Zhang (Beijing University of Posts and Telecommunications); Wendong Wang (Beijing University of Posts and Telecommunications)
7	42	Hyperparameter-Free Bi-Level Knowledge Graph Optimization for Link Prediction	Hao Li (National University of Defense Technology); Tong Mei (Qingdao University of Science and Technology); Jiaxin Fang (Dalian University of Technology)
8	44	MRT-NAS: Boosting Training-free NAS via Manifold Regularization	Pengjun Chen (Northeastern University); Yanqiao Zhu (Northeastern University); Jian Gao (Northeastern University); Haidong Kang (Northeastern University); Lianbo Ma (Northeastern University)
9	48	SWIFT: State-space Wavelet Integrated Forecasting	Wei Li (Shanghai University)

		Technology for Enhanced Time Series Prediction	
10	52	MSfusion: A Dynamic Model Splitting Approach for Resource-Constrained Machines to Collaboratively Train Larger Models	Jin Xie (HKUST(GZ)); Danny Tsang (HKUST(GZ)); Songze Li (Southeast University)
11	61	DeepCTL: Neural Branching-Time CTL Satisfiability Checking via Recursive Decision Trees	Bingchang Yuan (East China Normal University); Zhaohui Wang (East China Normal University); Lingfeng Zhang (East China Normal University); Jingran Yang (East China Normal University); Bojie Shao (East China Normal University); Min Zhang (East China Normal University)
12	64	Federated Privacy-Preserving for Cross-Domain Sequential Recommendation	Su Chen (Chinese Academy of Sciences); Yan Dong (Chinese Academy of Sciences); Yanmin Shang (Chinese Academy of Sciences); Xiaolin Xu (Zhongguancun Laboratory); Xixun Lin (Chinese Academy of Sciences)
13	66	Epilepsy Prediction based on Intra- and Inter-Channel Feature Mixing	Guang Chen (Peking University); Meng Xu (University of International Business and Economics); Jianhui Liu (Peking University); Xing Zhang (Peking University)
14	68	MFMamba: A Hierarchical Weakly Causal Mamba with Multi-Scale Feature Fusion for Vision Tasks	Zechen Sun (Huazhong University of Science and Technology); Cheng Cheng (Huazhong University of Science and Technology); Zuogong Yue (Huazhong University of Science and Technology)
15	70	F2Unet: F-shaped U-Net Architecture for Medical Image Segmentation Combining Fourier Transforms	Feiyue Qi (Beijing University of Chemical Technology); Yiwen Dai (Beijing University of Chemical Technology); Kaiye Xu (Beijing University of Chemical Technology); Haoran Chen (Beijing University of Chemical Technology); Zhuohang Wang (Beijing University of Chemical Technology); Haijiang Zhu (Beijing University of Chemical Technology); Jiawei Wu (Beijing University of Chemical Technology)
16	73	Efficient Real-Time On-Mobile Video Super-Resolution with Automatic Evolutionary Neural Architecture Search	Xuncheng Liu (Xi'an Jiaotong University); Weizhan Zhang (Xi'an Jiaotong University); Caixia Yan (Xi'an Jiaotong University); Zhiwen Wang (Xi'an Jiaotong University); Haipeng Du (Xi'an Jiaotong University)
17	75	Swin-DAG-VNet for Fetal Head Segmentation and Elliptical Parameter Regression for Circumference Measurement	Liyan Chen (Dongguan University of Technology); Ye Ding (Dongguan University of Technology); Zhihao Li (Dongguan University of Technology); Li Lu (Dongguan University of Technology)

18	95	GPIS: Geometric Informed Polygon Prompt for Incision Segmentation	Keran Ding (National University of Defense Technology); Peng Qiao (National University of Defense Technology); Wenyu Li (National University of Defense Technology); Xi Wang (National University of Defense Technology); Zhenglun Sun (National University of Defense Technology); Yong Dou (National University of Defense Technology)
19	96	Characterizing trainability, expressivity and generalization of neural architecture with metrics from neural tangent kernel	Xinyu Chen (university of science and technology of china); Jinlong Li (university of science and technology of china); FAIZA AMIN (university of science and technology of china); HuanHuan Chen (university of science and technology of china)
20	99	Topological Enhancement Learning Module for Segmentation of Complex and Irregular Structures in 3D Medical Imaging	yanyun gao (University of Electronic Science and Technology of China)
21	104	Multi-Representation Adapter with Neural Architecture Search for Efficient Range-Doppler Radar Object Detection	ZhiWei Lin (Peking University); Weicheng Zheng (Tongji university); Yongtao Wang (Peking University)
22	117	Fine-grained Recognition of Arteriovenous Fistula Stenosis Using Blood Flow Sounds: An Animal Model-Based Dataset and a Frequency-Aware Decoupling Network	Shanlin Xiao (Southeast University); Yangyi Zhou (Nanjing First Hospital); Jie Zhu (Southeast University); Jincen Wang (Southeast University); Yan Zhao (Southeast University); Yuan Zong (Southeast University); Jie Kong (Nanjing First Hospital)
23	118	SMART-RetroNet: A Framework for Chemical Retrosynthesis Prediction	Xiaobo Cheng (University of Jinan); Yi Ding (University of Jinan); Yi Cao (University of Jinan); Yuehui Chen (University of Jinan)
24	121	LPSF-LiDARNet: Log-Polar Spatiotemporal Fusion-Based LiDAR Point Cloud Semantic Segmentation for Autonomous Driving	Yuchen Zhang (Beihang University); Jiahe Cui (Beihang University); Huangcheng Jia (Beihang University); Tongyao Liang (Beihang University); Junda Wu (Beihang University); Qinglei Hu (Beihang University); Deyi Li (Hangzhou Innovation Institute of Beihang University); Zhenchao Ouyang (Hangzhou International Innovation Institute)
25	126	Few-shot Learning for Syndrome Differentiation with Two Prompts	Xian Zhou (Natural Language Processing Lab, Soochow University); Sophia Yat Mei Lee (The Hong Kong Polytechnic University); Xinhe Gang (Soochow University); Yichen Yang (Soochow University); Yu Liu (changshu rural commercial bank); Shengfeng Ju

			(changshu rural commercial bank); Shoushan Li (Natural Language Processing Lab, Soochow University)
26	133	PSRDET: Fast Multimodal Detecton based on Prior Scene Repair for All-weather Road Sensing	Chengbo Yu (江汉大学); Dengshi Li (江汉大学); Jia Wei (江汉大学); Yihui Wang (江汉大学); haiyang ye (江汉大学)
27	135	FedTP: Traceable Passport-based Ownership Verification for Federated Deep Neural Network Models	Qi rui S a (Institute of Information Engineering，CAS); YiFei Zhang (Alibaba Group); WeiJing You (Fujian Normal University); CunQing Ma (Institute of Information Engineering，CAS); WeiYang Qiu (Fujian Normal University)
28	137	Art Style Backdoor Attacks on Semantic Segmentation Models	Jinsu Yang (Xiangtan University); Fen Xiao (Xiangtan University); Zexin Li (Xiangtan University); Ye Xiao (Xiangtan University); Wenhan Yao (Xiangtan University); Weiping Wen (Peking University)
29	152	CLIP-Guided Frequency-Aware Representation Learning for Generalizable Remote-Sensing Image Tampering Detection	Hong Lin (Xiamen University); Hongyang Zhang (Xiamen University); Qingyao Wu (Xiamen University); Haitao Zhang (Xiamen University); Yue Huang (Xiamen University); Xiaotong Tu (Xiamen University); Xinghao Ding (Xiamen University)
30	156	Parallelizing Sharpness-Aware Minimization: A Semi-Asynchronous, Small-Batch Approach	weimin li (Institute of Computing Technology, Chinese Academy of Sciences); yuzhong sun (Institute of Computing Technology, Chinese Academy of Sciences)
31	157	An Enhanced Audio Feature Tailored for Anomalous Sound Detection Based on Pre-trained Models	Guirui Zhong (University of Science and Technology of China); Qing Wang (University of Science and Technology of China); Jun Du (University of Science and Technology of China); Lei Wang (National Intelligent Voice Innovation Center); Mingqi Cai (iFLYTEK Research); Xin Fang (iFLYTEK Research)
32	163	Generalized Object Detection in the Infrared Domain based on Common-Representation Learning	DAN LIU (University of Science and Technology of China); ZELIN SHI (Shenyang Institute of Automation, Chinese Academy of Sciences, Shenyang); YUNPENG LIU (Shenyang Institute of Automation, Chinese Academy of Sciences, Shenyang)
33	170	Balance Discriminability and Integrality for Robust Salient Object Detection	Senbo Yan (Zhejiang University); chuer yu (ZheJiang University); Haifeng Liu (Zhejiang University); deng cai (Zhejiang University)
34	182	Unsupervised Domain Adaptive Hand Mesh Reconstruction of 2D Images in the Wild	Xinyi Hou (Shanghai Jiao Tong University); Huayi Zhou (Shanghai Jiao Tong University); Yue Ding (Shanghai Jiao Tong University); Hongtao Lu (Shanghai Jiao Tong University)

35	184	Multimodal Sentiment Analysis with Parallel Attention and Correlation Fusion	Xiaoqiang Liu (Zhejiang University of Technology); Jie Lei (Zhejiang University of Technology); Jiaqi Wu (Zhejiang University Of Technology); Zunlei Feng (Zhejiang University); Ronghua Liang (Zhejiang University Of Technology)
36	192	Towards Context-Aware Compositional Zero-Shot Food Recognition via SalientFusion	Jiajun Song (School of Agricultural and Rural Development, Renmin University of China); Xiaoou Liu (School of Agricultural and Rural Development, Renmin University of China)
37	197	Object-Centric Dreamer	Leonid Ugadiarov (AIRI, Moscow Institute of Physics and Technology); Vitaliy Vorobyov (FRCCSC, Moscow Institute of Physics and Technology); Alexandr Panov (AIRI)
38	202	SparWR: A Lightweight Architecture for Medical Grayscale Image Super-Resolution	Xudong Wang (Wenzhou Medical University); Zuoping Tan (Wenzhou University of Technology); Yuanyuan Wang (Wenzhou Medical University)
39	214	A Hybrid Learning Approach for Continual Knowledge Graph Embedding: Contrastive Masking and Joint Anti-Forgetting	Nanhui Lai (South China Normal University); Ke Jin (South China Normal University); Yingchao Long (South China Normal University); Weihao Yu (Research Institute of China Telecom Corporate Ltd); Jin Huang (South China Normal University)
40	218	Leveraging Machine-Translated Data for Sentiment Analysis in Low-Resource Languages: A Case Study on Bengali	NUR-A-ALAM ABIR (TIANJIN UNIVERSITY)*; Xiaowang Zhang (TIANJIN UNIVERSITY); Rafiul Haq (TIANJIN UNIVERSITY); Sofonias Yitagesu (TIANJIN UNIVERSITY)
41	224	Sparse Attention Diffusion Model for Pathological Micrograph Deblurring	Hesong Wang (Wuhan University); Juan Liu (Wuhan University); Yi Zhang (Department of Electronics and Information Engineering, Wenhua College); Cheng Li (Wuhan Landing Intelligent Medicine Co., Ltd); Dehua Cao (Wuhan Landing Intelligent Medicine Co., Ltd); Baochuan Pang (Wuhan Landing Intelligent Medicine Co., Ltd)
42	227	MPCCP:A Multi-chain Perception Crime Charge Prediction Method	Congshan Huang (College of Computer Science and Electronic Engineering,Hunan University); TianShuo Jiao (College of Computer Science and Electronic Engineering,Hunan University); Qiao Hu (College of Computer Science and Electronic Engineering,Hunan University); Yupeng Hu (College of Computer Science and Electronic Engineering,Hunan University); Bianxia Du (Changsha Vocational And Technical College)

43	240	Brain Generative Replay for Continual Learning	Jianguo Zhou (HANGZHOU DIANZI UNIVERSITY); Dongjun Liu (HANGZHOU DIANZI UNIVERSITY); Wanzeng Kong (HANGZHOU DIANZI UNIVERSITY)
44	241	RRetFC: Leveraging Recursive Retrieval For LLM-Enhanced Complex Fact-Checking	Yuxuan Xie (Shanghai Jiao Tong University); Xiaoliang Liu (Shanghai Jiao Tong University); Peng Wu (Shanghai Jiao Tong University); Li Pan (Shanghai Jiao Tong University)
45	242	Dynamic Ensembles Towards Out-Of-Distribution Generalization of Affect Models	Sean Vella Caruana (University of Malta); Athanasios Papathanasiou (University of Malta); Konstantinos Makantasis (University of Malta)
46	253	RDIF: Infrared and Visible Image Fusion Based on Reverse Cross-Attention and Diffusion Model	Hongli Su (Nanjing university); Yuchen Hong (Nanjing university); Zhihao Liu (Nanjing university); Chenglei Peng (Nanjing university); Hongbing Pan (Nanjing university)
47	261	Feature-Aware Sequence Models for Tabular Data Processing with Missing Values	Yan Qian (Shenzhen Campus of Harbin Institute of Technology); Yiqing Shen (Johns Hopkins University)
48	262	CIBR: Cross-modal Information Bottleneck Regularization for Robust CLIP Generalization	Yingrui Ji (Aerospace Information Research Institute, Chinese Academy of Sciences); Xi Xiao (University of Alabama at Birmingham); Gaofei Chen (University of Alabama at Birmingham); Hao Xu (Harvard Medical School); Chenrui Ma (University of California, Irvine); Lijing Zhu (Bowling Green State University); Aokun Liang (Wuhan University); Jiansheng Chen (Aerospace Information Research Institute, Chinese Academy of Sciences)
49	268	Cascade Pre-Attention: Regulating Neuronal Activation Distributions in MetaFormer-Based Spiking Neural Networks	Yukun Xue (Xidian University); Lichen Feng (Xidian University)
50	272	Topic-Driven Hyper-Relational Knowledge Graphs with Adaptive Reconstruction for Multi-Hop Question Answering Using LLMs	Yingying Zhang (Beijing University of Posts and Telecommunications); Bo Cheng (Beijing University of Posts and Telecommunications); Yuli Chen (Beijing University of Posts and Telecommunications)
51	273	Towards Better Graph Anomaly Detection: A Performance-Aware Neural Architecture Search Approach	BABATOUNDE MOCTARD OLOULADE (Aarhus University); Jianliang Gao (Central South University); Raeed Al-Sabri (Central South University); Jiamin Chen (Central South University); Zhenpeng Wu (Central South University)

52	275	YOLO11n_BSS: Examination Room Behaviors Detection Based on Improved YOLO11n Model	雪豪 吴 (Hebei Normal University); 瑞强 郭 (Hebei Normal University)
53	278	Conformalized Causal Learning for Uncertainty-Aware Mineral Prospectivity Mapping	Evelyn Jaya (Shanghai Jiao Tong University); Qinying Gu (Shanghai Artificial Intelligence Laboratory); Xinbing Wang (Shanghai Jiao Tong University); Nanyang Ye (Shanghai Jiao Tong University)
54	279	PhysMamba: Synergistic State Space Duality Model for Remote Physiological Measurement	Zhixin Yan (South China University of Technology); Yan Zhong (South China University of Technology); Hongbin Xu (South China University of Technology); Wenjun Zhang (South China University of Technology); Shangru Yi (South China University of Technology); Wenxiong Kang (South China University of Technology); Lin Shu (South China University of Technology)
55	283	Learning Joint General and Specific Representation with Masked Auto-encoder for Radiology Report Generation	Tongfei Shen (Soochow University); Zixuan Teng (Soochow University); Dong Zhang (Soochow University)
56	286	Process Adaptive Learning for Visual-Language Navigation	Chaoqi Gao (Tianjin University); Boyuan Zhang (Tianjin University); Yahong Han (Tianjin University)
57	288	Audio-Driven Talking Head Generation with Emotion Based on FLAME Geometry Model	Yahui Li (Xinjiang University); Yinfeng Yu (Xinjiang University); Liejun Wang (Xinjiang University)
58	289	Improving Stability of Parameter Sharing in Cooperative Multi-Agent Reinforcement Learning	Yurui Li (Zhejiang University); Li Zhang (Zhejiang University); Shijian Li (Zhejiang University); Gang Pan (Zhejiang University)
59	290	Efficient Long-Term Motion Feature Learning via Frequency-Based Key Frame Guidance for Action Recognition	Yuchen Zhou (College of Artifcial Intelligence, Nanjing Agricultural University); Shougang Ren (College of Artifcial Intelligence, Nanjing Agricultural University); Xingjian Gu (College of Artifcial Intelligence, Nanjing Agricultural University)
60	291	The Explainability-Performance Coefficient: A New Metric for Model Transparency	Christian Oliva (Universidad Autónoma de Madrid); Luis F. Lago-Fernandez (Universidad Autónoma de Madrid)
61	294	GLFMamba-U: Global-Local Fused Mamba-Unet	Ziniu Liu (ongji Universtiy); Mingqing Liu (Tongji Universtiy); Fengxia Han (Tongji Universtiy); Xi Zhang (Tongji Universtiy); Chuan Liu (Tongji Universtiy); Daqiang

			Zhang (Tongji Universtiy); Hao Deng (Tongji Universtiy); Shengjie Zhao (Tongji Universtiy)
62	297	Region Expansion: Optimization of Patch-fetching Method for Point Cloud Denoising	Tao Deng (Sun Yat-sen University); Shengtao Li (Sun Yat-sen University); Jiadun Wang (Guangxi University); Daosong Hu (Sun Yat-sen University); Kai Huang (Sun Yat-sen University)
63	304	SAMTNU: Adaptive Segment Anything Model for Thyroid and Nodule Ultrasound Image Segmentation	Xiaonan Li (Hebei Normal University); Dong Chen (Hebei Normal University); Lei Li (Hebei Normal University); Haibin Ma (Hebei Normal University); Yunrong Zhang (Hebei Normal University)
64	306	AgileIR: Memory-Efficient Group Shifted Windows Attention for Lightweight Image Restoration	Hongyi Cai (University of Malaya); Mohammad Mahdinur Rahman (Universiti Malaya); Jingyu Wu (Fuzhou University of International Studies and Trade); Wenzhen Dong (The Chinese University of Hong Kong); Jie Li (University of Science and Technology Beijing)
65	308	FaceSnap: Enhanced ID-fidelity Network for Tuning-free Portrait Customization	Benxiang Zhai (Nanjing Unicersity); Yifang Xu (Nanjing Unicersity); Guofeng Zhang (Wonxing Technology); Yang Li (Nanjing Unicersity); SiDan Du (Nanjing Unicersity)
66	313	Improving the Transferability of Point Cloud Attack via Spectral-aware Admix and Optimization Designs	Shiyu Hu (Peking University); Daizong Liu (Peking University); Wei Hu (Peking University)
67	314	Toward Better Document-Level Relation Extraction: De-Sampling and Mixture of Experts in Action	Xiaojun Sheng (Shenzhen University); Shilong Wei (Shenzhen University); Yafei Wang (Shenzhen University); Minmin Li (Guangdong Laboratory of Artificial Intelligence and Digital Economy(SZ)); Weixi Wang (Shenzhen University); Renzhong Guo (Shenzhen University); Qi Yang (Guangdong Laboratory of Artificial Intelligence and Digital Economy(SZ))
68	315	CSM: Corn Instance Segmentation Model Fusing Dilated Residual Networks and Low-Rank Adaptation	Deli Zhu (Chongqing Normal University); Xinjie Li (Chongqing Normal University); Liang He (Chongqing Normal University)
69	321	Enhancing Graph Neural Networks with Mixup-Based Knowledge Distillation	Jing Liu (Department of Nuclear Medicine, Beijing Chest Hospital, Capital Medical University); Tianai Yue (Johns Hopkins University)
70	326	IHCP:Image Hiding against Blind Compression Based on Quality Prediction	Hao Cao (Sichuan University); HongXia Wang (Sichuan University); Yulin He (Sichuan University); Wanjie Li (Shihezi University)
71	327	ChiMDQA: Towards Comprehensive Chinese Document QA	Jing Gao (Beijing Jiaotong University, Foxit Software Co. Ltd, Fuzhou, China); Shutiao Luo (Beijing University of Posts and Telecommunications,Beijing,China; Foxit

		with Fine-grained Evaluation	Software Co. Ltd, Fuzhou, China); Yumeng Liu (Beijing University of Technology,Beijing,China; Foxit Software Co. Ltd, Fuzhou, China); Yuanming Li (Foxit Software Co. Ltd, Fuzhou, China); Hongji Zeng (Foxit Software Co. Ltd, Fuzhou, China)
72	329	Uniform Representation of Parametric CAD Models for Generative Application	Shengling Duan (BUAA); Jiali Feng (AVIC Digital Corporation Ltd.); Yue Qi (BUAA)
73	339	Emotional Text-to-Speech via Style Decoder with Emotion Shared Styleformer Block and RoPE Prior Encoder	Wenhan Yao (Xiangtan University); Fen Xiao (Xiangtan University); Zexin Li (Xiangtan University); Ye Xiao (Xiangtan University); Xiarun Chen (Peking University); Weiping Wen (Peking University)
74	341	FedP2PAvg: A Peer-to-Peer Collaborative Framework for Federated Learning in Non-IID Scenarios	Bruno Fernandes (Universidade de Pernambuco); Agostinho Freire Junior (Universidade de Pernambuco); João Andrade (Universidade de Pernambuco); Leandro Silva (Universidade de Pernambuco); Nicolas Navarro-Guerrero (Leibniz Universität Hannover)
75	359	KANLoc: WiFi Localization with A Lightweight KAN	Yunlong Gu (Gannan Normal University); Meng Xu (university of international business and economics); Mengshan Li (Gannan Normal University); Jiawei Li (King's College London); Jiguang Li (Northumbria University); Zhao Huang (Northumbria University); Lixin Guan (Gannan Normal University)
76	360	DualGF: Example-based Path Planning via Dual Gradient Fields	Mingdong Wu (Peking University); Fangwei Zhong (Beijing Normal University); Yulong Xia (Peking University); Yizhou Wang (Peking University); Hao Dong (Peking University)
77	363	Improving monotonic optimization in heterogeneous multi-agent reinforcement learning with optimal marginal deterministic policy gradient	Xiaoyang Yu (Beijing Jiaotong University); Youfang Lin (Beijing Jiaotong University); Shuo Wang (Beijing Jiaotong University); Sheng Han (Beijing Jiaotong University)
78	367	Early Acoustic and Vision Cross-modal Interation Learning for Multimal Sentiment Analysis	Xiongjian Lv (Guilin University Of Electronic Technology); Yimin Wen (Guilin University Of Electronic Technology); Yi Qian (Guilin University Of Electronic Technology); Xiaoyu Li (Guilin University Of Electronic Technology)
79	379	PIMSeg: Point Cloud Segmentation via 2D Image Mapping and Multimodal Feature Integration	Hai Nan (Chongqing University of Technology); Hongji Chen (Chongqing University of Technology); Lingcuan Duan (Chongqing University of Technology); Aijuan Wang (Chongqing University of Technology); Zeng Tian (Chongqing Nankai Liangjiang Secondary School)
80	381	Trustworthy Learning with Noisy Labels	Zhen Wang (School of Artificial Intelligence Hebei University of Technology); Pengfei Li (School of Artificial

			Intelligence,Hebei University of Technology); Wenyu Jia (School of Artificial Intelligence Hebei University of Technology); Yongfeng Dong (School of Artificial Intelligence Hebei University of Technology)
81	382	Uncovering Causal Relation Shifts in Event Sequences under Out-of-Domain Interventions	Kazi Tasnim Zinat (University of Maryland College Park); Yun Zhou (Amazon Web Services); Xiang Lyu (Amazon Web Services); Yawei Wang (Amazon Web Services); Zhicheng Liu (University of Maryland College Park); Panpan Xu (Amazon Web Services)
82	409	Incorporating Feature Pyramid Tokenization and Open Vocabulary Semantic Segmentation	Jianyu Zhang (Zhejiang Univerisity); Li Zhang (Zhejiang University); Shijian Li (Zhejiang University)
83	412	ViSMoE: Visual-Aware Sparse Mixture-of-Experts for Embodied Referring Expression Grounding	Shuo Feng (Nanjing University of Aeronautics and Astronautics); Piji Li (Nanjing University of Aeronautics and Astronautics)
84	413	PaFi-GS: Gaussian Splatting via Propagation-Aware Filtering for Urban Street View Rendering	Ying Long (Yunnan University); Zhiliu Yang (Yunnan University); Hongyu Chen (Yunnan University); Zhiyong Hao (Yunnan University); Chen Liu (Clarkson University)
85	414	TimeFlowDiffuser: A Hierarchical Diffusion Framework with Adaptive Context Sampling for Multi-Horizon Time Series Forecasting	Wei Li (Shanghai University)
86	420	Dopamine-modulated Learning and Decision-making with Neuromorphic Computing	Pavan Kumar Enuganti (BITS Pilani K K Birla Goa Campus); Basabdatta Sen Bhattacharya (BITS Pilani K K Birla Goa Campus)
87	421	FDFRL: Credit Card Fraud Detection Based on Federated Reinforcement Learning	Nana Zhang (Donghua University); Qin Li (Donghua University); Kun Zhu (Tongji university); Dandan Zhu (East China Normal University)
88	423	Vision-Text Interaction with Orientation-Awareness for Referring Remote Sensing Image Segmentation	Xiaoshuai Wu (Dalian University of Technology); yu Liu (Dalian University of Technology); kaiping Xu (Dalian University of Technology); jizhe Yu (Dalian University of Technology); hao Zhang (Dalian University of Technology)
89	424	A Unified Platform to Evaluate STDP Learning Rule and Synapse Model using Pattern Recognition in	Jaskirat Maskeen (Indian Institute of Technology Gandhinagar); Sandip Lashkare (Indian Institute of Technology Gandhinagar)

		a Spiking Neural Network	
90	430	ConDTab: Conditional Diffusion Transformer for Mixed-Type Tabular Synthesis with Dual Attention Latent Encoding	Ruoxuan Wang (Beijing University of Posts and Telecommunications); shiying Li (Beijing University of Posts and Telecommunications); Liuyi Fan (Beijing University of Posts and Telecommunications); Wei Ma (Beijing University of Posts and Telecommunications); zexi Li (Beijing University of Posts and Telecommunications); xinbo Ai (Beijing University of Posts and Telecommunications)
91	431	SentiAug: Adaptive Keywords Replacement and Confidence-guided Self-training Selection for Robust Sentiment Classification	Yang ly (Harbin Engineering University); Yan Chu (Harbin Engineering University); Zhao Qingchao (Harbin Engineering University); Zhengkui Wang (SIT)
92	434	U-FQA: A Unified Face Quality Assessment Score for Improved Unknown Identity Detection in Facial Recognition Systems	Agostinho Freire (Universidade de Pernambuco); João de Andrade (Universidade de Pernambuco); Cristian Millan-Arias (Universidade de Pernambuco); Rodrigo Monteiro (Universidade de Pernambuco); Bruno Fernandes (Universidade de Pernambuco); Carmelo Bastos-Filho (Universidade de Pernambuco); Jorge Tortato (Pumatronix Equipamentos Eletrônicos LTDA); Luiz Schitz (Pumatronix Equipamentos Eletrônicos LTDA); Alexandre Krzyzanovski (Pumatronix Equipamentos Eletrônicos LTDA); Alexandre Maciel (Universidade de Pernambuco)
93	447	DFU-Net: A Diffusion-based Fourier Neural Operator-aided U-Net Model for Medical Image Segmentation in Edge Devices	Sanchita Das (Jadavpur University); Asfak Ali (Jadavpur University); Dmitrii Kaplun (Saint Petersburg Electrotechnical University "LETI"); Sergei Antonov (Saint Petersburg Electrotechnical University "LETI"); Ram Sarkar (Jadavpur University)
94	457	A Two-Stage Framework Integrating Prompt Learning and Fine-tuning for Code Summarization	Xiaoshu Sun (Yunnan University); SiQi Lv (Yunnan University); Wei Wan (Yunnan University); Yiming Qin (Yunnan University); Gang Hu (Yunnan University)
95	462	DialGACL: Nonlinear Graph Attention Reasoning with Contrastive Learning for Complex Dialogue Fact Verification	Wei Xia (Chongqing Normal University); Yu Zhong (Chongqing Normal University); Linfeng Gong (Chongqing Normal University); Yulong Yang (Chongqing Normal University); Sifan Zhao (Chongqing Normal University); Shaoguo Cui (Chongqing Normal University)
96	463	DA-NeRF: High-Fidelity Talking Face Generation From Speech With Neural Radiance Fields	yali cai (National university of defense technology); peng qiao (National university of defense technology); dongsheng Li (National university of defense technology)

97	469	Improving Consistency Distillation with Rectified Trajectories	Han Zhang (Shanghai Jiao Tong University); Fan Cheng (Shanghai Jiao Tong University)
98	473	CM-MNet: A Coordinate Space-Aware Mamba-Based Multi-Task Model for 3D Fine Lesions in Elongated Structures Segmentation and Diagnosis in MS and NMOSD	Wenlong Lin (Chongqing Normal University); Yongliang Han (Department of Radiology, The First Affiliated Hospital of Chongqing Medical University); Shaoguo Cui (Chongqing Normal University); Jinhui Liu (Chongqing Normal University); Junshan Chen (Chongqing Normal University); Yongmei Li (Chongqing Medical University)
99	474	Problem-Driven and Shape-Guided: Multi-scale Deform KAN for X-shaped Anterior Visual Pathway Segmentation	JinHui Liu (Chongqing Normal University); Yongliang Han (Department of Radiology, The First Affiliated Hospital of Chongqing Medical University); Wenlong Lin (Chongqing Normal University); Yongmei Li (Department of Radiology, The First Affiliated Hospital of Chongqing Medical University); Fanghong Zhang (Chongqing Normal University); Binbin Sang (Chongqing Normal University); Tiansong Li (Chongqing Normal University); Wenfeng Zhang (Chongqing Normal University); Shaoguo Cui (Chongqing Normal University)
100	477	A Camouflaged Object Detection Network with Global Cross-space Perception and Flexible Local Feature Refinement Network	Zhenjie Ji (Shanghai Institute of Technology); Yanjiao Shi (Shanghai Institute of Technology); Qing Zhang (Shanghai Institute of Technology); Qiangqiang Zhou (Jiangxi Normal University)
101	478	TimbreAdv: Timbre Adversarial Attacks on Speaker Verification Systems	Ye Xiao (XiangTan University); Wenhan Yao (XiangTan University); Zexin Li (XiangTan University); Jinsu Yang (Xiangtan University); Yuhao Chen (XiangTan University); Xiandang Luo (XiangTan University); Fen Xiao (XiangTan University); Weiping Wen (Peking University)
102	485	Accurate SDF Reconstruction with Geometric-Differential Regularization and Categorized Sampling Strategy	Kaiheng Li (Xiamen University); Jiahui Chen (Xiamen University); Chuanfeng Yang (Xiamen University); Ziheng Zhang (Xiamen University); Xuan Wei (Xiamen University); Mingyu Shao (Xiamen University); Qingqi Hong (Xiamen University)
103	489	See Beyond: Benchmarking MLLMs' Visual Relational Reasoning Ability	Yifan Wang (SiChuan University); Haizhou Wang (SiChuan University)
104	490	Catastrophic Forgetting Mitigation via Discrepancy-Weighted Experience Replay	Xinrun Xu (UCAS); Jianwen Yang (ISCAS); Qiuhong Zhang (ISCAS); Zhanbiao Lian (ISCAS); Zhiming Ding (ISCAS); Shan Jiang (AIBD)
105	494	HeteroCap: Hierarchical Visual-Semantic	Yuxi Chen (School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu); Xiaohua Wu (School of

		Fusion with Heterogeneous Graphs for Image Captioning	Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu); Zheng Luo (School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu); Yuhang Liu (School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu)
106	497	Dual-Head Feature Enhancement for Graph-Based Cross-View Multi-Object Tracking	Yunfei Zhang (ShanghaiTech University); Jin Gao (Institute of Automation, Chinese Academy of Sciences); Wenjuan Li (Institute of Automation, Chinese Academy of Sciences); Weiming Hu (Institute of Automation, Chinese Academy of Sciences)
107	503	Optimized Supervised Control of Stochastic Timed Discrete Event Systems using Supervisory Control Theory and Reinforcement learning	yingjun liu (Guangdong University of Technology); fuchun liu (Guangdong University of Technology); hongzhen zhu (Guangdong University of Technology)
108	515	A Classification Algorithm for Bronchiolitis Obliterans in Pediatric CT Images with Extreme Class Imbalance	Lu Liu (Northeastern University); Xibin Feng (Shengjing Hospital Affiliated to China Medical University); Ye Yuan (Northeastern University); Wei Xu (Shengjing Hospital Affiliated to China Medical University); Wenjun Tan (Northeastern University)
109	516	DISEncoder:A Dual-Branch Query Encoder Using Graph Models for Distributed Databases	Jianwen Yang (UCAS;ISCAS); Qiuhong Zhang (UCAS;ISCAS); Jin Yan (UCAS;ISCAS); Shuo Zhang (ISCAS); Zhiming Ding (ISCAS); Meiling Zhu (ISCAS); Xinrun Xu (UCAS;ISCAS)
110	520	A Subject-Independent Stress Detection Model Based on Temporal Feature Disentanglement	庆伟 曾 (jiojio)
111	525	Supervised feature selection with class self-representation	Fusen Zhang (HEU); Yan Chu (Harbin Engineering University); baihan jing (HIT); xu huang (HEU); Zhengkui Wang (Singapore Institute of Technology)
112	538	PGD: Probe Guided Decoding for Alignment	Changxin Chen (Shanghai University of Finance And Economics)
113	542	Semantic Enhanced Interaction for Unsupervised Cross-modal Hashing Retrieval	Xin Li (Chongqing Normal University); Wei Hu (Chongqing Normal University); Mingyong Li (Chongqing Normal University)
114	435	MENGLAN:Multiscale Enhanced Nonparametric Gas Analyzer with Lightweight Architecture and Networks	Zhenke Duan (Zhongnan University of Economics and Law); Jiqun Pan (Zhongnan University of Economics and Law); Jiani Tu (Zhongnan University of Economics and Law)