

2026 IEEE Conference on Artificial Intelligence (CAI 2026)

Granada, Spain

8-10 May 2026

Pages 1–709

IEEE Catalog Number:
ISBN:

CFP26BJ7-POD
979-8-3315-6040-9



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP26BJ7-POD
ISBN (Print-On-Demand):	979-8-3315-6040-9
ISBN (Online):	979-8-3315-6039-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

KARINA: Knowledge-Augmented Representation for Ingredient-level Nutrition Analysis from Food Images	1
<i>Chieh-Yu Pan, Wei-Ta Chu</i>	
A Practical Enhancement for Intrusion Detection Systems With Validation-Gated Mixture-of-Experts (VG-MoE)	7
<i>Malik Al-Essa, Wasim A. Ali, Michele Roccotelli, Maria Pia Fanti</i>	
Adaptive Knowledge Retrieval in Multimodal GraphRAG via Cross-Modal Relationship Learning	13
<i>Dipanjan Sengupta, Samriddha Chatterjee, Prayati Dutta, Avinandan Bandyopadhyay</i>	
Lightweight U-Net Autoencoders with Semantic Compression for Unsupervised Fault Detection in Water Distribution Systems	21
<i>Qimeng Li, Md Babul Islam, Shuaijie Chen, Wen Qi, Massimo Guarascio, Andrea Vinci, Antonio Guerrieri, Franco Cicirelli, Giancarlo Fortino</i>	
Leveraging Artificial Intelligence for the Multi-objective Optimization of Energy Communities	27
<i>Maria Ruxandra Cojocaru, Daniel Vallejo España, David Criado-Ramón, Luis Gonzaga Baca Ruiz, María Del Carmen Pegalajar Jiménez</i>	
The analysis of customized tokenizer for the development of isiNdebele language model	33
<i>Promise Tshepiso Malatji, Thipe Isaiah Modipa</i>	
Training Data Influence on GPT Models: A Human-AI-Hybrid Analysis	39
<i>Rithvik Krosuri, Vaishnavi Sen, Rashida Hasan</i>	
The Impact of Quality Control, Curated Gene Sets, and Statistical Frameworks on Alzheimer’s Disease Gene Expression Analysis in Single-Cell Data	47
<i>Natasha Petrovska, Maria Larrondo-Petrie, Mirjana Pavlovic</i>	
Robust Continuous Hand Gesture Spotting: An Empirical Study with Deep Sequential Encoding and Probabilistic Time-Series Modeling	53
<i>Hyeonkyu Lee, Moonju Park, Young-Eun Lee, Jaeheung Park</i>	
A Framework for the Systematic Optimization of Brand Recommendation Rates in Large Language Models	59
<i>Parham Aarabi, Yiqian Qin, Anastasiia Garmash</i>	
An AI-Driven Business Intelligence Framework for Churn Prediction and Geospatial Scoring in the Removals Sector	61
<i>Minerva Sarma, Haider Raza, Haralambos Mouratidis, Jake Bedding, Joanna Sedley-Burke</i>	
On the study of the shape of language: A Topological Analysis of Universal Embedding Spaces generated by Large Language Models	67
<i>Luis Balderas, Miguel Lastra, José M. Benítez</i>	
Challenges in Data Engineering for Generative AI Applications: Analysis of Data Extraction from SEC 10-K Filings	73
<i>Chandrashekar Konda, Bansari Shah</i>	
Benchmarking Foundation Models for Cross-Domain Speaker Profiling	78
<i>Ashkan Moradi, Tiago H. Falk</i>	

Dialogical Learning in the Age of Generative AI: Reclaiming Epistemic Integrity in Higher Education	85
<i>Mgr. Eva Švejdarová</i>	
Channel-Selected Stratified Nested Cross-Validation for Clinically Relevant EEG-Based Parkinson's Disease Detection	91
<i>Nicholas R. Rasmussen, Rodrigue Rizk, Longwei Wang, Arun Singh, KC Santosh</i>	
Themis: An explainable AI-enabled framework for Reinforcement Learning with Human Feedback	98
<i>Andreas Chouliaras, Luke Connolly, Dimitris Chatzopoulos</i>	
Cross-household Transfer Learning Approach with LSTM-based Demand Forecasting	106
<i>Manal Rahal, Bestoun S. Ahmed, Roger Renström, Robert Stener</i>	
DRIFTS: Distributed Robustness for Time Series is Feasible, Distributed, and Fun	114
<i>Daniel Amadori, Emanuele Chini, Pietro Sala</i>	
A Dual-LLM Framework for Validating Structured Learning Scenarios: Toward Reliable AI Support for Accessible Education	122
<i>Steve Devènes, Francesco Carrino</i>	
Optimizing Legal Workflows: A Cost-Performance Analysis of Fine-Tuned SLMs vs. LLMs for Document Classification	128
<i>Renato Miyaji, Renato Moulin, Leonardo Machado</i>	
Singular Value Fine-Tuning for Efficient Device-to-Device Adaptation of Large Language Models	134
<i>Yang Guangzhao, Hiroshi Esaki, Hideya Ochiai</i>	
Poisoning Object Detection Models for Surface Defect Inspection in Steel Manufacturing	140
<i>Jaan Johansson, Leila Belmerhnia, Georgios Spathoulas, Samuel Marchal</i>	
An Investigation of Topological Machine Learning in Industrial Domain: Application to Tyre Noise Prediction	147
<i>S.G. De Benedictis, N. Del Buono, E. Di Lascio, A. Rancati, N. Melas, G. Pece</i>	
Robust Training of Large Language Models under Non-IID Data in Wireless Ad Hoc Federated Learning	153
<i>Motoki Tanaka, Hiroshi Esaki, Hideya Ochiai</i>	
Multi-task Deep Learning for the Multi-label Prediction of Neurodegenerative Diseases	159
<i>Thomas Borsani, Giuseppe Nicosia, Giuseppe Di Fatta</i>	
State-Learning of Time Series Data with Contrastive Learning	167
<i>Phillip Johann Overlöper, Alexander Diedrich, Oliver Niggemann</i>	
Lessons Learned in Developing Deep Learning Models for EEG-based ADHD Detection*	173
<i>Javier Sanchis, Sandra García-Ponsoda, Juan Trujillo, Alejandro Maté, Miguel A. Teruel</i>	
PCR-GP: Prior-Coupled Residual Gaussian Processes for Few-Shot Lipid Nanoparticle Formulation	181
<i>Adrian Kucia, Jacob Sanderson, Wai Lok Woo, Gary Montague, Yvonne Perrie, Thomas McLean</i>	
<i>David Vaughan Palmer, Bruce Richard Williams</i>	
Data-Efficient Design of Experiments for Lipid Nanoparticle Development through Prior-Informed Machine Learning	187
<i>Jacob Sanderson, Adrian Kucia, Wai Lok Woo, Gary Montague, Yvonne Perrie, Thomas McLean</i>	
<i>David Vaughan Palmer, Bruce Richard Williams</i>	

Drift-Aware Temporal Graph Rewiring (DATGR) for Adaptive Semantic Modeling in Biomedical Text	193
<i>Bharathwaj Vijayakumar, Sahana K. Varadaraju</i>	
AI-driven Scaling of Design of Experiments to High-Throughput Automation: A Genetic Algorithm for Large Orthogonal Designs	199
<i>Jade Lejeune Herman, Peter Goos</i>	
Multi-Output Prediction of Occupant Behavior Using Multi-Head Attention: A Case Study in an Office Setting	205
<i>Khadija Bouyakhssaine, Abderrahim Brakez, Khalid Addi, Maareva Payet</i>	
Sorting Recyclable Waste under Uncertainty	211
<i>José G. Quenum</i>	
Testing Method for Language Model Evaluation: A Case Study on a Localized Question Bank	217
<i>Tsu-Yi Yeh, Po-Yu Hsieh, Cheng-Chuan Huang, Pang-Chieh Wang, Tzy-Shiah Wang, Yu-Tai Li</i>	
Ensemble learning methods as a tool for more robust prediction of mobile payment usage	225
<i>Mariia Godz, Francisco Liébana-Cabanillas, Juan Lara-Rubio, David A. Pelta</i>	
Formalisation of Security for Federated Learning with DP and Attacker Advantage in IIIf for Satellite Swarms	231
<i>Florian Kammüller</i>	
CStore: A Framework for Generating Editable, Versionable Csound Orchestra Code - From Text to Sound and Music	237
<i>Li Charlie Shi, Richard Boulanger</i>	
Do Language Models Help or Harm? The Role of LLM-Generated Explanations in Human-AI Image Classification Tasks	244
<i>Mohammad Naiseh, Baraa Zieni, Natali Chiara, Hamid Bouchachia</i>	
LLM-Augmented Feature Engineering for Machine Learning Pipelines	250
<i>A. Rancea, I. Anghel, T. Cioara</i>	
Quantifying the Effects of Prompt Design on LLM Output Uniformity for Qualitative Tasks	256
<i>Kristina Radivojevic, Ana Beatriz Ribeiro Soares, Susan Gicheha, Lisa Schirch, Paul Brenner</i>	
Online Routing Problems under Spatial Locality	262
<i>Swapnil Guragain, Gokarna Sharma</i>	
Federated Multi-Agent Mapping for Planetary Exploration	268
<i>Tiberiu-Ioan Szatmari, Abhishek Cauligi</i>	
Phase-Aware Deep Learning with Complex-Valued CNNs for Audio Signal Applications	275
<i>Agrawal Naman</i>	
HeuRiskUNet: UAV Navigation in Risk Maps through Improved Path Planning Heuristics	283
<i>E. Aldao, F. Veiga-López, C. P. C. Chanel, Y. Watanabe, H. González-Jorge</i>	
Spiking vs. Artificial Neural Networks for Lung Sliding Detection in E-FAST: A Capacity-Matched Low-Data Benchmark*	289
<i>Ege Özbilen, Sergio M. Navarro</i>	

Worker-Centered AI: Transparent Explanations for Trustworthy Task Recommendation in Crowd Work	295
<i>Fateme Mazdarani, Alberto Campos Hernandez, Carlos Toxtli</i>	
Disaster Response Gross Motor, Fine Motor and Tactile Workload Prediction Using Multi-layer Perceptrons	303
<i>Mark-Robin Giolando, Julie A. Adams</i>	
CATS: Cross-Modal Autoencoding for Time Series Summarization	309
<i>Nika Strem, Nikhila Joshy, Devendra Singh Dhami, Kristian Kersting</i>	
From 10-K to Industry Multi-Labels: A Bottom-Up LLM-Driven Product Clustering with Pareto Frontier Analysis	317
<i>Zihao Huang, Joel Quek, Kewei Huang</i>	
Data-Driven Diagnosis for Large Cyber-Physical-Systems with Minimal Prior Information	325
<i>Henrik Sebastian Steude, Alexander Diedrich, Ingo Pill, Lukas Moddemann, Daniel Vranješ Oliver Niggemann</i>	
Meteorological data and Sky Images meets Neural Models for Photovoltaic Power Forecasting	333
<i>Inés Montoya-Espinagosa, Antonio Agudo</i>	
Framework for Hazardous Situations detection in Autonomous Driving	339
<i>M. Garcia-Fernandez, Nourdine Aliane, Javier Fernández Andrés</i>	
The Epistemic Limits of NLP Models in Media Bias Detection: Toward a Framework for Context-Aware and Reflexive AI Systems	345
<i>Francisco-Javier Rodrigo-Ginés, Jorge Chamorro-Padial, Pablo Rodríguez-Díaz</i>	
From Co-Pilots to Co-Workers: A Formal Typology of Human-Agent Collaboration in Organizations	351
<i>Francisco-Javier Rodrigo-Ginés, Jorge Chamorro-Padial, Jorge Pretel-Villanueva Javier Aguilera-Aguilera, Valentino Lugli</i>	
IDSD: A novel algorithm for credibility-based Subgroup Discovery for clinical data	357
<i>Francisco Mora-Caselles, Manuel Campos, Antonio Lopez-Martinez-Carrasco, Jose M. Juarez</i>	
Combating Disinformation: A Deep Learning Approach for Supply Chain Resilience	363
<i>Md Rafiul Hassan, Mohammad Anwar Rahman</i>	
XAID framework: defending against adversarial attacks on IDSs using eXplainable AI	370
<i>Felix Op den Camp, Thomas Kunstmann, Andrea Tundis</i>	
Towards auto-shot learning of Temporal Constraints in LLMs	376
<i>Sidra Nasir Rajput, Pietro Sala</i>	
FlexiDataGen: An Adaptive LLM Framework for Dynamic Semantic Dataset Generation in Sensitive Domains	383
<i>Hamed Jelodar, Samita Bai, Roozbeh Razavi-Far, Ali A. Ghorbani</i>	
Energy-Efficient Federated Learning for Space Observation via Neuromorphic Computing: a Use Case	389
<i>Domenico Lofù, Paolo Sorino, Tommaso Di Noia, Eugenio Di Sciascio</i>	
Retaining Explicit and Implicit Knowledge with RAG-enhanced Generative AI	396
<i>Sergej Miličević, Knut Hinkelmann, Barbara Eisenbart</i>	

Creative Satisfaction in Human-AI Collaborative Writing Workflows: Insights from Large Language Model Use in Technical Communication Training	400
<i>Krista Speicher Sarraf</i>	
Cooperative Multi-Drone Coverage Path Planning with Graph-Attentive Feature Interaction	406
<i>Mingsheng Li, Jiaping Xiao, Mir Feroskhan</i>	
A GA-Optimised Wavelet-Based Ensemble Learning Model for Stock Index Trend Prediction	412
<i>Bashar Alhnaity</i>	
CFCT: A Framework Using ConvNeXt With FPN, CBAM and A Topology Enhanced Loss Function for Skin Lesion Segmentation	419
<i>Md Shakilur Rahman, Hong Cheng</i>	
Prompt-Oriented Documentation: A Definition and Framework for Interactive User Manual and Developer Guides	425
<i>Daniel Ciochiu, Claudiu Trăistaru, Marius Brezovan, Mircea Bădoi, Gabriel Nedianu</i>	
Design and Simulation of a Battery Electric Vehicle Model for Underground Mining Applications with Synthetic Data Generation for Machine Learning Model	431
<i>Tamsa, Arpit Garg, Wen L. Soong, S. Ali Pourmousavi</i>	
Smoothed Nonparametric Hierarchical Topic Modeling with Global Topic-Word Distributions via the Nested Dirichlet Distribution	437
<i>Fares Alkhawaja, Ghazi Fkiri, Manar Amayri, Nizar Bouguila</i>	
xFODE: An Explainable Fuzzy Additive ODE Framework for System Identification	445
<i>Ertuğrul Keçeci, Tufan Kumbasar</i>	
Learning to Select Like Humans: Explainable Active Learning for Medical Imaging	451
<i>Ifrat Ikhtear Uddin, Longwei Wang, Xiao Qin, Yang Zhou, KC Santosh</i>	
Artificial Intelligence for Labor Market Analysis: Using BERT Models to align professional education and labor market demands	457
<i>Rodrigo C. Michel, Yuri Lima, Cícero Braga, Luiz C. F Fernandez, Inês Pereira</i>	
Causal Modeling of the Fairness and Usefulness Trade-off in Remedial Social Programs with Application in Student Financial Support	463
<i>Maher Alhossaini, Mohammed Aloqeely</i>	
Explainable Machine Learning for Photovoltaic Fault Diagnosis: A Comparative Study	471
<i>Giuseppe D’Aniello, Mario Della Corte, Matteo Gaeta, Giovanni Spagnuolo</i>	
PerLiFuse: Per-Frequency Beta–Liouville Fusion Networks for Fake News Detection	477
<i>Akinlolu Oluwabusayo Ojo, Nizar Bouguila</i>	
Few-Shot Adapted-Embedding with Style Adversarial Regularization for Activity Recognition	485
<i>Jawher Dridi, Manar Amayri, Nizar Bouguila</i>	
Reinforcement Learning-Based Optimal Secret Protection in Discrete Event Systems	489
<i>Jie Ren, Ruotian Liu, Agostino Marcello Mangini, Maria Pia Fanti</i>	
Graph-Based Early Warning from Therapy Narratives: A System-of-Systems Copilot for Behavioral Health	495
<i>Rawan AlMakinah, M. Abdullah Canbaz</i>	

A Hierarchical Framework for the Management of Carpooling Using Autonomous Vehicles	503
<i>Gaetano Volpe, Antonio Salcuni, Ruotian Liu, Agostino Marcello Mangini, Maria Pia Fanti</i>	
High-fidelity 3D reconstruction for planetary exploration	509
<i>A. Martínez-Petersen, L. Gerdes, D. Rodríguez-Martínez, C. J. Pérez-Del-Pulgar</i>	
Dynamic Time Series Clustering for Novelty Detection in Screw-Tightening Processes on Engine Assembly Lines	516
<i>Víctor Robles, Daniel Hernández, Gregorio I. Sainz-Palmero, Marta Galende-Hernández María Jesús De La Fuente</i>	
Sustainable Energy Management in Smart Cities: Optimizing Smart Grids Using Metaheuristic Algorithms	522
<i>Shaban Mousavi-Ghasemlou, Alberto Ochoa-Zezzatti, Saúl Zapotecas-Martínez, Diego Oliva, Manuel Lira Luz A. Garcia-Villalba</i>	
Breaking the Sub-Millimeter Barrier: Eyeframe Acquisition from Color Images	528
<i>Manel Guzmán, Antonio Agudo</i>	
LLM-Driven 3D Scene Generation of Agricultural Simulation Environments	535
<i>Arafa Yoncalik, Wouter Jansen, Nico Huebel, Mohammad Hasan Rahmani, Jan Steckel</i>	
Multi-Objective Evolutionary Optimisation for Enhanced Ethanol Production Under Mixed Carbon Sources	543
<i>Andrea Rosani, Giorgio Jansen, Jole Costanza, Thomas Borsani, Giuseppe Di Fatta, Giuseppe Nicosia</i>	
A Lightweight Neural Network with Replicator-Enhanced Attention Modules for Thermographic Breast Cancer Screening	551
<i>Jotiraditya Banerjee, Rajdeep Pal, Oscar Ramos-Soto, Diego Oliva, Itzel Aranguren, Ram Sarkar</i>	
Generalizable Machine Learning for Corporate Bankruptcy Prediction: An XGBoost-Based Framework	557
<i>Graziano Duca, Andrea Bucci, Riccardo Rosati, Luca Romeo</i>	
A Variational approach to Physics Informed Neural Network for Stochastic Partial Differential Equations	564
<i>Robbie Slos, Tom Lefebvre, Jolan Wauters, Guillaume Crevecoeur</i>	
Systematic Characterization of Minimal Deep Learning Architectures: A Unified Analysis of Convergence, Pruning, and Quantization	571
<i>Ziwei Zheng, Huizhi Liang, Vaclav Snasel, Vito Latora, Panos Pardalos, Giuseppe Nicosia, Varun Ojha</i>	
Nonparametric Neural Variational Inference for McDonald's Beta Mixture Models with Feature Selection	577
<i>Diaa Azzam, Muhammad Azam, Nizar Bouguila</i>	
CT-SAFR: Safe and Interpretable Chain-of-Thought Reasoning for Autonomous Robots : A Multi-Layered Verification Framework for Trustworthy AI-Driven Robotic Decision Making	585
<i>Cagri Temel</i>	
An Agentic System for Schema Aware NL2SQL Generation	591
<i>David Onyango, Naseef Mansoor</i>	
From Robust Networks to AI-Ready Parcel Locker Systems: A Multilayer Perspective on Design, Demand and Resilience	597
<i>Francesco Cauteruccio, Enrico Corradini</i>	

Task Aware One-Shot Pruning for Edge-Deployable Large Language Models	603
<i>Adriano Puglisi, Flavia Monti, Francesco Leotta, Christian Napoli, Massimo Mecella</i>	
Quantized Medical LLMs for Edge Deployment: A Privacy-Preserving RAG System	609
<i>Filippo Bianchini, Edoardo Bianchini, Cyril Wyon-Boyault, Eric Folco, Mathilde Proponnet-Guerault Nicolas Vuillerme, Massimo Mecella</i>	
OntoCRA-NS: A Neuro-Symbolic Framework for Explainable and Auditable Cybersecurity Compliance Aligned with EU Regulatory Frameworks	616
<i>Jasmin Cosic, Admir Jukan, Miroslav Baca</i>	
Analysis of Diagnostic Data via Oriented Conditional Leverage	623
<i>José Luis Balcázar</i>	
NewsGuard-LLM: A Lightweight, Dynamic LLM based Framework for Real-Time Threat Detection in Digital News Stream	629
<i>Gaurav Jadhav, Jagadesh Rajendran, Amit Kumar Singh, Zeba Khanam, Robert Hercock</i>	
GLITCH_AI: A Hybrid Framework for Automated Penetration Testing with LLM-Driven Adaptation and Reporting	635
<i>Maria Gonzalez Herrero, Amit Kumar Singh, Zeba Khanam</i>	
Performance-Based 3D Object Generation for Engineering under Limited Data	641
<i>Michael Hohmann, Abdou Diasso, Alexander Windmann, Wolfgang Weber, Oliver Niggemann</i>	
Ensuring Consistency of Large Language Model Outputs for Similar Prompts using Group Relative Policy Optimization	647
<i>Sonal Prabhune, Balaji Padmanabhan, Kaushik Dutta</i>	
Diffusion-based data augmentation for short-term multivariate energy prediction in data-scarce scenarios	655
<i>Stelio Bompai, Ioannis Kontopoulos, Konstantinos Tserpes</i>	
The Impact of Ontology Structure in the Performance of RAG Systems: a Medical Use Case	661
<i>Damon Lin, Andrea Riquelme-García, Jesualdo Tomás Fernández-Breis, Paul Edward Anderson</i>	
Field Test of a Mission Science Objective-Based Artificial Intelligence for Spaceflight	668
<i>Bethany P. Theiling, Shannon Bull, Connor Williams, Leyton McKinney, Connor Firth, Lily A. Clough Alan Gibson, James Marshall, Steven Hard, Michael Monaghan, Jonathan Hammer, Melissa De La Cruz Caroline Zouloumian, Brett McKinney, Evana Gizzi</i>	
What Exactly is a Deepfake? A Systematic Literature Analysis of Concepts, Risks, and Potentials	674
<i>Yizhi Liu, Balaji Padmanabhan, Siva Viswanathan</i>	
SAFE-GUARD: Audio Emotion Recognition System for Real-Time Public Place Abuse Detection	682
<i>Kanan, Rashmi Chawla, Giancarlo Fortino</i>	
Tool and Agent Selection for Large Language Model Agents in Production: A Survey	688
<i>Elias Lumer, Anmol Gulati, Faheem Nizar, Dzmitry Hedroits, Atharva Mehta, Henry Hwangbo Vamse Kumar Subbiah, Pradeep Honaganahalli Basavaraju, James A. Burke</i>	
An AI-Powered Predictive Platform for Early Detection of Chronic Kidney Disease	696
<i>Shivani Mamunoori, Shounak Palnitkar Jitendra, Jinzhu Gao</i>	

A System-Level Taxonomy of Failure Modes in Large Language Model Applications	702
<i>Vaishali Vinay</i>	
An Agentic Framework for Efficient and Scalable Web Content Classification	710
<i>Dan-Gabriel Tudor, Costin Bădică</i>	
SAILS: Segment Anything with Incrementally Learned Semantics for Task-Invariant and Training-Free Continual Learning	716
<i>Shishir Muralidhara, Didier Stricker, René Schuster</i>	
SeqRisk: Transformer-augmented latent variable model for robust survival prediction with longitudinal data	724
<i>Mine Öğretir, Miika Koskinen, Juha Sinisalo, Risto Renkonen, Harri Lähdesmäki</i>	
Patch-Wise Regressor-Guided Preprocessing for Multiple Instance Learning in RGB Image Classification	732
<i>Amin Mavaddat, Marcos Moura, Carlos A. M. Correia, Mariane R. Petraglia, Alessandro R. L. Zachi Fabio A. A. Andrade</i>	
A Universal Action Space for General Behavior Analysis	737
<i>Hung-Shuo Chang, Yue-Cheng Yang, Yu-Hsi Chen, Chien-Yao Wang, Hong-Yuan Mark Liao</i>	
CADEMAS – A Framework for Cooperative Automated Decision-Making Systems	743
<i>Pavel Novoa-Hernández, David A. Pelta, Mariia Godz, José L. Verdegay, Dionisio Buendia-Carrillo</i>	
Evaluating different alternatives for few-shot style-consistent character generation	749
<i>Roberto González, Ruben Pascual, Mikel Sesma-Sara, Mikel Galar</i>	
HySMOTE: A Hybrid Approach for Handling Class Imbalances*	755
<i>Asifa Mehmood Qureshi, Abhishek Kaushik, Roisin Loughran, Fergal McCaffery</i>	
A Review of Large Language Models for Stock Price Forecasting from a Hedge-Fund Perspective	761
<i>Olivia Zhang, Zhilin Zhang</i>	
Wind Turbine Power Curve Modeling with Mixture of Experts	769
<i>Eduardo Mello Martins, Carolina Dias da Rocha Checheliski, Eugênio Piveta Pozzobon Humberto Pinheiro, Frederico Menine Schaf, Claiton Moro Franchi, João Paulo Dias Thiago A. N. de Andrade</i>	
Probabilistic Causal Modelling of Factors Contributing to Stress, Anxiety, and Depression for Nurses and Social Workers	775
<i>Olha Shaposhnyk, Daria Zahorska, Amy Beck, Katherine Bright, Linda Duffett-Leger Svetlana Yanushkevich</i>	
Debiasing and Explainability Effectiveness of LLM Tuning: A Quantitative Approach	781
<i>Lara Mauri, Federico Preda, Ernesto Damiani</i>	
Greener Pixels: Reducing Carbon Emissions in AI Image Generation	789
<i>Alvin Chen</i>	
DynaView: Bridging Offline Learning and Online Adaptation for UAV Viewpoint Planning	795
<i>Jing Huang, Jiale Qin, Ning Xue</i>	

Hybrid 3D Asset Retrieval via Contrastive Vision-Language Matching and Structured Prompt Parsing	801
<i>Ahmad Alkhaldi, Igli Balla, Rahma El Bouazzaoui, Tirthendu Prosad Chakravorty, Hergys Rexha Sébastien Lafond, Tristan Klempka</i>	
SUVI: Scalable Unified Vector Intelligence for Efficient Edge Deployment	809
<i>Nakul Vyas</i>	
BananaGPT: A Zero-Shot LLM Framework for Predicting Banana Time-to-Spoilage to Reduce Food Waste	815
<i>Olivia Zhang</i>	
Trajectory-Aware Deformable Transformer for Contextual Video Prediction	823
<i>Sidharth Bhanu Kamtam, Qian Lu, Olivier C. L. Hass, Stewart Birrell</i>	
FraudTransformer: Time-Aware GPT for Digital Payment Fraud Detection	829
<i>Gholamali Aminian, Andrew Elliott, Tiger Li, Timothy Cheuk Hin Wong, Victor Claude Dehon Łukasz Szpruch, Carsten Maple, Christopher Read, Martin Brown, Gesine Reinert, Mo Mamouei</i>	
Benchmarking Deep Learning Models for Aerial LiDAR Point Cloud Semantic Segmentation under Real Acquisition Conditions: A Case Study in Navarre	836
<i>Alex Salvatierra, José Antonio Sanz, Christian Gutiérrez, Mikel Galar</i>	
Agentic Symbolic Learning for Deterministic and Granular Clinical Data Normalization	842
<i>Borja Jordan de Urries, David Gómez Ortiz, Ernestina Menasalvas</i>	
HAViT: Historical Attention Vision Transformer	848
<i>Swarnendu Banik, Manish Das, Shiv Ram Dubey, Satish Kumar Singh</i>	
An Automated Pipeline for Large-Scale 3D Annotation of Laparoscopic Instruments to Enable Deep Learning Tasks in Box Trainers*	854
<i>Dehleh Shabir, Nihal Abdurahiman, Jhasketan Padhan, Julien Abinahed, Khaled Shaban, Nikhil V. Navkar</i>	
OGD4All: A Framework for Accessible Interaction with Geospatial Open Government Data Based on Large Language Models	861
<i>Michael Siebenmann, Javier Argota Sánchez-Vaquerizo, Stefan Arisona, Krystian Samp, Luis Gisler Dirk Helbing</i>	
AHFF-Net: Adaptive Hierarchical Feature Fusion via Fractal Recursive Bottlenecks for Fine-Grained Cancer Cell Classification	868
<i>Muhammad Attique Khan, Muhammad John Abbas, Juan M. Gorriz</i>	
Evaluating Histogram Matching for Robust Deep Learning-Based Grapevine Disease Detection	876
<i>Ruben Pascual, Inés Hernández, Salvador Gutiérrez, Javier Tardaguila, Pedro Melo-Pinto Daniel Paternain, Mikel Galar</i>	
SIRA: A Semantic LLM-Based Agent for Interpreting and Detecting Vishing Attacks	882
<i>Yasser Hmimou, Mohamed Tabaa, Azeddine Khia, Zineb Hidila</i>	
A Fuzzy Approach to Risk-Based Ethical Decision Making in Symbiotic Artificial Intelligence	888
<i>Abeer Dyoub, Francesca Alessandra Lisi</i>	
Federated Recommendations with Built-in Privacy and Explainability: A Conceptual Model	894
<i>Alexandra Vultureanu-Albiși, Costin Bădică</i>	

Developing An AI Agent for Technical Support in the Machine Tools Industry	900
<i>Aitor Martinez-Seras, Unai Gomez-Ferreira, Javier Martin-Arauzo</i>	
Active Learning and Explainable AI for Multiobjective Optimization of Spin Coated Polymers	903
<i>Brendan Young, Brendan Alvey, Andreas Werbrouck, Will Murphy, James M. Keller, Matthias J. Young Matthew Maschmann</i>	
A Minimal Brain–Computer Interface for Efficient Mission-Level Control in Industrial Human–Robot Interaction	911
<i>Mojtaba Porghoveh, Raffaele Carli, Mariagrazia Dotoli</i>	
Asm2Src-LLMEval: A GenAI Pipeline for Multi-Metric Assessment of LLMs in Program Translation and Analysis	917
<i>Parisa Hamed, Hamed Jelodar, Samita Bai, Mohammad Meymani, Roozbeh Razavi-Far, Ali Ghorbani</i>	
GESD: Beyond Outcome-Oriented Fairness	925
<i>Gideon Popoola, John Sheppard</i>	
Post-Quantum Secure Federated DeFi for Inclusive Banking	932
<i>S. Sachan, D. Fickett, R. Buchinger, T. Miller</i>	
A Socratic Multi-Agent Framework using LLMs for Programming Education	938
<i>Gabriel Luna, Rafael Luna, Rodrigo Luna, Jano Moreira de Souza, Geraldo Xexeo</i>	
ViFi-HMM: Fuzzy Regime-Switching State Inference for Uncertain Dynamic Systems	946
<i>Fatima Ghanduri, Christos Anagnostopoulos</i>	
A Systematic Approach to Reducing Human Errors in Maintenance Processes Using Multi-Agents	954
<i>Ahmed Qura, Ahmed Ibrahim, Ali Zalzala</i>	
Leveraging Cross-Modal Information to Reduce Gender Bias in Facial Analysis Systems	960
<i>Iris Dominguez-Catena, Daniel Paternain, Aranzazu Jurio, Mikel Galar</i>	
A Multi-Model Ensemble YOLO Framework for Automated Detection of Dental Pathologies in Low-Quality Panoramic Radiographs	966
<i>Malik Haseeb Haider, Haider Raza, Aleš Fildler, Rabiya Koya, Akhilanand Chaurasia</i>	
InvPatch: Prefix-Based Conditional Generation for Inverse Dynamics	972
<i>Nemanja Rašajski, Konstantinos Makantasis, Antonios Liapis, Georgios N. Yannakakis</i>	
Evaluation of a Transfer-Learning Strategy for a Prototype Wearable sEMG Armband Trained for Upper Limb Grasp Classification	980
<i>Escobar-Saltarén D., Salazar Sánchez M. B., Henao Sofia. C.</i>	
Mitigating Distributional Shifts in Predicting Conformational Properties of Intrinsically Disordered Proteins	986
<i>Diego Linares Gonzalez, Shahana Ibrahim, Aniket Bhattacharya, George Atia</i>	
Spatio-temporal Modeling Using a Cost-Effective System for Air Quality Monitoring	992
<i>Manal Karmoude, Brenton Munhungewarwa, Ryan McKenzie, Jude Kong, Bevan Smith, Vongani Chabalala Donald Ngoben, Raghav Chandna, Mukesh Kumar, Redouane Benaini, Bruce Mellado</i>	
Size Matters: Reconstructing Real-Scale 3D Models from Monocular Images for Food Portion Estimation	998
<i>Gautham Vinod, Bruce Coburn, Siddeshwar Raghavan, Jiangpeng He, Fengqing Zhu</i>	

A Multi-Model Ensemble YOLO Framework for Automated Detection of Dental Pathologies in Low-Quality Panoramic Radiographs	1006
<i>Malik Haseeb Haider, Haider Raza, Aleš Filder, Rabiya Koya, Akhilanand Chaurasia</i>	
MSCloudCAM: Multi-Scale Context Adaptation with Convolutional Cross-Attention for Multispectral Cloud Segmentation	1012
<i>Md Abdullah Al Mazid, Liangdong Deng, Naphtali Rishe</i>	
GlucoGuardian: An AI-Powered Platform for Diabetes Management	1018
<i>Bhargavi Pathuri, Shounak Palnitkar Jitendra, Satya Hyma Likhitha Basina, Jinzhu Gao</i>	
Feature Fusion and Ranking for Face Forgery Detection	1024
<i>Zhentao Chen, Huimin Li, Junlin Hu</i>	
AutoClimDS: Climate Data Science Agentic AI – A Knowledge Graph is All You Need	1030
<i>Ahmed Jaber, Wangshu Zhu, Ayon Roy, Candace Agonafir, Linnia Hawkins, Karthick Jayavelu Justin Downes, Sameer Mohamed, Tian Zheng</i>	
Early Warning System for Inflation Risks: A Hybrid Forecasting Framework Integrating Triple Exponential Smoothing with GARCH Models for Monetary Policy	1037
<i>Rahmat Hidayat, Ansari Saleh Ahmar, Alde Alanda, Erianda Aldo, Hilda Amnur, Rasyidah</i>	
From Interpretable Learning to Actionable Decisions: A Bounded Preference Neural Network for Multi-Attribute Optimization	1043
<i>Yi Liu, Haiming Liang, Yucheng Dong</i>	
Privacy-preserved Platform-edge Passenger Detector : 3D Point Cloud Data and Deep Learning to Prevent Station Accidents	1049
<i>M. Matsuno, C. Premachandra</i>	
PAMS-PSO: A Predictive and Adaptive Multi-Swarm Particle Swarm Optimizer for Dynamic Optimization Problems	1055
<i>Kang Yin, Yuji Sato</i>	
Functional Modularity from Activation Patterns Only	1061
<i>Cesare Montresor, Pietro Sala</i>	
Automated Chunking of Clinical Video Interviews: A Case Study in Multimodal Suicide Risk Assessment	1069
<i>Bakhtiyor Meraliyev, Aisultan Shoiynbek, Darkhan Kuanyshbay, Paulo Menezes, Assylbek Mukhametzhanov Temirlan Shoiynbek, Nurzhas Abdikenov, Aiganym Bolatova</i>	
A Modular Hybrid Transformer Framework for Trustworthy Radiology Report Summarization	1075
<i>Setareh Pourgholamali, Edoardo Patti, Alessandro Aliberti</i>	
Cyclical Temporal Encoding and Hybrid Deep Ensembles for Multistep Energy Forecasting	1081
<i>Salim Khazem, Houssam Kanso</i>	
Fall Detection from DVS Events using Spiking UniFormer	1088
<i>Supun Gamlath, Chathuranga Hettiarachchi</i>	
Accelerating Surrogate-Assisted Decomposition-Based Multiobjective Optimization via Effective Assignment of Pre-Collected Solutions	1094
<i>Ryotaro Nakahashi, Ryudai Kato, Yuma Horaguchi, Masaya Nakata</i>	

Identifying Smartphone-Using Pedestrians on Railway Platforms via Deep Learning–Driven Point Cloud Data	1101
<i>H. Mieda, C. Premachandra</i>	
A Hybrid Deterministic Framework for Named Entity Extraction in Broadcast News Video	1107
<i>Andrea Filiberto Lucas, Dylan Seychell</i>	
A Comparative Study of Text-Driven Diffusion Models for Generative Human-Like Motion	1113
<i>Ali Ihsan Ozcetin, Burak Tantay, Kadir Yavuz Kurt, Hakan Temeltas</i>	
MIFair: A Mutual-Information Framework for Intersectionality and Multiclass Fairness	1119
<i>Jeanne Monnier, Thomas George, Christèle Tarnec, Frédéric Guyard, Marios Kountouris</i>	
Multi-Agent Reinforcement Learning for Time-Critical UAV Medical Supply Delivery with Dynamic Task Allocation	1127
<i>Islam Guven, Mehmet Parlak</i>	
Sustainability-Aware Multi-Agent Reinforcement Learning for UAV Response and Monitoring with Joint Communication and Sensing	1133
<i>Islam Guven, Mehmet Parlak</i>	
Alternating Bi-Objective Optimization for Explainable Neuro-Fuzzy Systems	1139
<i>Qusai Khaled, Uzay Kaymak, Laura Genga</i>	
Fill in the Gaps - Applying Polynomial-based Imputation techniques for Heart Rate Data	1147
<i>Vaibhav Gupta, Florian Gensing, Beyza Cinar, Louisa Van Den Boom, Maria Maleshkova</i>	
HumanMCP: A Human-Like Query Dataset for Evaluating MCP Tool Retrieval Performance	1155
<i>Shubh Laddha, Lucas Changbencharoen, Win Kuptivej, Surya Shringla, Yash Bhaskar</i>	
SynCAFG-Net: Synergistic Cross-Attention Feature Generation for High-Accuracy Lightweight Image Classification	1159
<i>Peng Li, Roman Senkerik, Zuzana Kominkova Oplatkova</i>	
Graph Neural Networks for Class Imbalance Learning and Detecting Fraud Transactions	1165
<i>Wei Liu, Ehsan Hallaji, Roozbeh Razavi-Far</i>	
Modeling Mind and Mood with CLAIRE: Neuro-Symbolic Meta-Cognition for Interpretable Emotion Recognition	1171
<i>Vishwa Bhatt, Divya Thakar, Dylan M. Diaz, Nainesh Rajani, Khalil Dajani, Jennifer Kim Jin</i>	
Learning Collaborative Reasoning Strategies Through Trust-Weighted Multi-Agent Consensus	1179
<i>Projan Shakya, Kashish Bataju, Kristina Ghimire, Ashwini Mandal, Sadikshya Gyawali, Manish Awale</i>	
<i>Manish Dahal, Shital Adhikari, Sanjay Rijal, You Young, Vaghawan Ojha</i>	
A Systematic Framework for Enterprise Knowledge Retrieval: Leveraging LLM-Generated Metadata to Enhance RAG Systems	1185
<i>Pranav Pushkar Mishra, Kranti Prakash Yeole, Ramyashree Keshavamurthy, Mokshit Bharat Surana</i>	
<i>Fatemeh Sarayloo</i>	
Synthesize, Adapt, Steal: A Few-Shot Domain Adaptive Model Stealing Attack for Tabular Data	1193
<i>Maxime Schwarzer, Gustavo Sánchez, Thies Möhlenhof, Laurin Holz, Johannes F. Loevenich</i>	
<i>Roberto Rigolin F. Lopes, Veit Hagenmeyer</i>	

DIVA: Diverse Video Generation with Agents	1199
<i>Tahira Kazimi, Heather Yu, Zhiqiang Lao</i>	
Election-Based Task Pruning in Mixture-of-Experts for Scalable Multi-Task Learning	1205
<i>Andrei Bachinin, Shrideep Pallickara, Sangmi Lee Pallickara</i>	
Mechanistic Interpretability of Large Language Models using Kolmogorov-Arnold Networks	1212
<i>Erik Adler, Johannes F. Loevenich, Silja Kluge, Laurin Holz, Tobias Hürten, Florian Spelter</i>	
<i>Roberto Rigolin F. Lopes</i>	
Interpreting Text-to-Image Diffusion Through Structured Prompts and Cross-Attention Attribution	1218
<i>Christian Auman, Deepshikha Bhati, Angela Guercio, Fnu Neha</i>	
Reject-Option Ensemble Learning for Neural Network-Based Channel Equalization	1225
<i>Wellington D. Almeida, Ajalmar R. Rocha Neto</i>	
Retrieval-Augmented AI Feedback to Support Metacognition and Accessible Feedback in STEM Education	1231
<i>Deepshikha Bhati, Tram Le, Angela Guercio, Christian Auman, Devi Sri Bandaru</i>	
Fine-Grained Prostate Cancer Tissue Classification Through Expert-Annotated Dataset and Clinically Interpretable Deep Learning	1237
<i>Jacobo Ayensa-Jiménez, Denis Navarro, Iván Sevillano-García, Andrés Mena, Isabel Marquina</i>	
<i>Sofía Hakim, Jorge Alfaro, Francisco Herrera, Manuel Doblaré, Ángel Borque-Fernando</i>	
Prediction of Complications in Lung Biopsies with Artificial Intelligence: a Preliminary Study and Early Findings	1243
<i>María Cribillés Pérez, Juan Luis Suárez Díaz, Germán Maldonado Vicente, José Luis Martín-Rodríguez</i>	
<i>Francisco Herrera Triguero</i>	
An Optimization Framework for Balancing Accuracy and Fairness in Social-Choice Group Recommendation	1249
<i>Raciel Yera, Bapi Dutta, Luis Martínez</i>	
Training-Free Text-to-Image Compositional Food Generation via Prompt Grafting	1255
<i>Xinyue Pan, Yuhao Chen, Fengqing Zhu</i>	
SWin: A Sliding Window Summarization Approach for Coherent LLM-driven Dialogue Systems	1263
<i>Shreya Prithviraj Savant, Yiheng Zhao, Jun Yan, Nanda Kumar Kumar Rengarajan</i>	
An Interpretable Therapy-Informed Dialogue Chatbot for Older Adults Guided by Hierarchical Linguistic Feature Inference and Social Buffering	1271
<i>Han-Chieh Chen, Yu-Chiao Chang, Yong-Xiang Chen</i>	
Hazard-Gated Temporal Transformers for Real-Time Risk Control	1277
<i>Vikrant Dey</i>	
Detection of Dynamic Frame Alteration in IoT Video Streams	1283
<i>Buduka Cherish Nchelem, Amit Kumar Singh, Haralambos Mouratidis, Urbi Chatterjee</i>	
Towards Calibration Enhanced Network by Inverse Adversarial Attack	1289
<i>Yupeng Cheng, Zi Pong Lim, Sarthak Ketanbhai Modi, Yon Shin Teo, Yushi Cao, Shang-Wei Lin</i>	
Multi-Agent Collaboration for Semantic-Aware 3D Scene Synthesis in Critical-Safety Applications	1296
<i>Vu Dinh Xuan, Hao Vo, Hoang Quoc Viet Pham, David Murphy, Hoang D. Nguyen</i>	

Agentic Narrative Audio Guides: A Hybrid Multi-Agent System for Cultural Audio Guides	1302
<i>Gabriel-Cătălin Nedianu, Mircea-Aurelian Bădoi, Daniel Ciochiu, Ionuț Murarețu, Costin Bădică</i>	
AutoStress Benchmark: Evaluating Factors that influence Cross Dataset Generalizability in Stress Recognition	1308
<i>Paul Schreiber, Maria Maleshkova</i>	
Mitigating LLM Limitations in Learning Environments through Retrieval-Based Knowledge Integration*	1315
<i>Rita Bezerra, Adelino Gala, Francisco S. Marcondes, Dalila Durães, Paulo Novais</i>	
Evaluating Generalizability of Population-Based and Age-Segmented Models for Hypoglycemia Classification	1321
<i>Beyza Cinar, Maria Maleshkova</i>	
Face Density as a Proxy for Data Complexity: Quantifying the Hardness of Instance Count	1329
<i>Abolfazl Mohammadi-Seif, Ricardo Baeza-Yates</i>	
DSFF: Dynamic–Static Feature Fusion Framework for Robust Cross-Dataset Deepfake Detection	1337
<i>Hui-Ying Huang, Ming-Yi Huang, Hao Teng, Chai-Yu Lin</i>	
XFormer: A Multi-Stage Uncertainty-Guided Deep Learning Framework for Time Series Extreme Event Forecasting	1343
<i>Rupasree Dey, Andrei Bachinin, Tanjim Bin Faruk, Abdul Matin, Mu Hong, Yao Zhang, Shrideep Pallickara Sangmi Lee Pallickara</i>	
Personalized Healthcare Recommendations for Diabetic Patients using Knowledge Graph Link Prediction	1350
<i>Nasrullah Khan, Zubair Shah</i>	
Enhancing Early-Stage Engagement Through Rapid Personalization of Caffeine Intake Recommendations	1358
<i>Kai-Lin Wang, Ching-Ying Chiang, Yong-Xiang Chen</i>	
Human Supervision as an Information Bottleneck: A Unified Theory of Error Floors in Human-Guided Learning	1364
<i>Alejandro Rodriguez Dominguez</i>	
Interpretable Topic Modeling with Online Dirichlet Compound Negative Multinomial Mixture Model and Feature Saliency	1372
<i>Ornela Bregu, Nizar Bouguila</i>	
Low-cost concept-based localized explanations: How far can we get with training-free approaches?	1378
<i>Darian Fernández-Gutiérrez, Rafael Bello, Marilyn Bello, Natalia Díaz-Rodríguez</i>	
Unsupervised and Decentralized Traffic Incident Detection via Network Lasso	1384
<i>Qiyuan Zhu, Zhuowei Zhao, A. K. Qin, Hussein Dia, Hanna Grzybowska</i>	
Predicting Food Shortages at Food Pantries using Machine Learning and Predictive Analytics	1390
<i>Samuel B. Mazzone, Eduardo Carrasco, Casey Hoff, Carey Redmann, Jeff Joslyn, Walter Bialkowski</i>	
Automated Feature Engineering Meets Automated Machine Learning: An Empirical Evaluation for Cell Culture Process Monitoring	1396
<i>Dilshan Sonnadara, Thanh Tung Khuat, Katarzyna Musial-Gabrys, Bogdan Gabrys</i>	

A Hierarchical End-of-Turn Model with Primary Speaker Segmentation for Real-Time Conversational AI	1404
<i>Karim Helwani, Hoang Do, James Luan, Sriram Srinivasan</i>	
Synthetic Craquelure Generation for Unsupervised Painting Restoration	1410
<i>Jana Cuch-Guillén, Antonio Agudo, Raül Pérez-Gonzalo</i>	
Outperforming but Not Collaborating: Fluency Gaps in Human–AI Teams	1416
<i>Christophe Lounis, Miguel Castells, Nicolas Drougard, Thibault Gateau, Adam H. M. Pinto Caroline P. C. Chanel</i>	
AKReF: An Argumentative Knowledge REpresentation Framework for Abstract Argumentation	1424
<i>Debarati Bhattacharjee, Ashish Anand</i>	
From Satellite to Silos: Predicting County-Level Corn Production in Minnesota Using Data Fusion	1432
<i>Zi Jian Jacob Tang, Victor C Emma Wele, Rei Onishi, Naseef Mansoor</i>	
Multi-Scale Visual Prompting for Lightweight Small-Image Classification	1438
<i>Salim Khazem</i>	
AI-Powered Symptom Assessment and User Experience: A Case Study of Simtomi and Simtomi-Care	1445
<i>Jinha Lee, Chan Hyung Lee, Hyunsung Lee, Seunghwan Kim, Ban Hyung Lee, Minjun Shin, Hojin Shin Jungdo Park</i>	
Integrating Symbolic Tokenization, k-mers, and Vision Transformers for Molecular Representation in BloodBrain Barrier Prediction	1451
<i>Hannah I. Da S. Marques, Giovanna A. P. Soares, Matheus Dalmolin, Raquel De M. Barbosa Marcelo A. C. Fernandes</i>	
Exploratory Machine Learning Modeling of Cyanobacteria and Cyanotoxin Transport in the Raritan Basin of New Jersey	1457
<i>Suvid Bordia, Vandana Rao Kondapalli, Harshini Rikkala, Kyle Clonan, Meiyin Wu, Hao Liu Weitian Wang, Michelle Zhu</i>	
Automated Detection of Hip Replacements and Fiducial Markers in Pelvic CT Scans: A Comparative Study of Rule-Based vs Deep Learning Approaches	1465
<i>Sambit Bhattacharya, Aniruddh Karunaker, Brian Anderson, Daxell Wells, Yuan Gao, Lawrence Marks Shiva Das, Arcot Rajasekar, Lukasz Mazur</i>	
Toward Scalable Patient Safety Training: A Prototype for Root Cause Analysis Simulation With AI Virtual Avatars	1472
<i>Yuqi Hu, Qiwen Xiong, Zhenzhen Qin, Brandon Watanabe, Yujing Wang, Mirjana Prpa, Ilmi Yoon</i>	
A framework to manage safe transition to manual control in complex AI systems for autonomous decision-making in critical dynamic environments	1478
<i>R. Mihai</i>	
SKYWALKER: Dual-Agent Reinforcement Learning for Autonomous Crawling in a Planar Microgravity Analog : Sim-to-Real Evaluation at ESA’s Orbital Robotics Lab	1484
<i>Dadi H. Davidsson, Bruno M. De Salas, Glenn G. Svendsen, Rasmus D. Kristiansen, Gustav Hansen Artem Melnyk, Alaa E. Kawara, Thor Nielsen, Jon Argjaboda, Simon Bøgh, Anton B. Mortensen</i>	
DynaFormer: A Dynamic Dual-Attention Transformer with Linear-Complexity Fusion for Medical Image Segmentation	1491
<i>Nand K. Yadav, Rodrigue Rizk, William C. W. Chen, KC Santosh</i>	

Enhancing Explainable AI for Medical Imaging: Improved LIME Interpretation with Influence Mapping	1497
<i>Abiha Tahsin Chowdhury, Dhanush Bavisetti, Daniel B. Hier, Rahul Dubey, Tayo Obafemi-Ajayi</i>	
A Language-Driven Framework for Improving Personalized Recommendations: Merging LLMs with Traditional Algorithms	1505
<i>Aaron Goldstein, Ayan Dutta</i>	
Ensemble Models for Predicting Treatment Response in Pediatric Low-Grade Glioma Managed with Chemotherapy	1511
<i>Max Bengtsson, Elif Keles, Angela J. Waanders, Ulas Bagci</i>	
Uncertainty-Aware LLM-Guided Policy Shaping for Sparse-Reward Reinforcement Learning	1518
<i>Ujjwal Bhatta, Utsabi Dangol, Sumaly Bajracharya, Rodrigue Rizk, KC Santosh</i>	
Tiny is Mighty Enough: Evaluating Tiny and Large Language Models for Controlling Autonomous Agents	1524
<i>Iliya Kulbaka, Ayan Dutta, O. Patrick Kreidl, Ladislau Bölöni, Swapnoneel Roy</i>	
Interfaze: The Future of AI is built on Task-Specific Small Models	1530
<i>Harsha Vardhan Khurdula, Vineet Agarwal, Yoeven D Khemlani</i>	
Serverless Cross-Device Knowledge Transfer with Collaborative LLM Fine-Tuning via Wireless Ad Hoc Federated Learning	1538
<i>Kota Nakajima, Hiroshi Esaki, Hideya Ochiai</i>	
CannyEdit: Selective Canny Control and Dual-Prompt Guidance for Training-free Image Editing	1544
<i>Weiyang Xie, Han Gao, Didan Deng, Kaican Li, Yongxiang Huang, April Hua Liu, Nevin L. Zhang</i>	
LLM-Seeded Genetic Improvement: Hierarchical AST Evolution with Multi-Level Donor-Code Transplants	1552
<i>Michael Schladt, John C. Gallagher</i>	
Can Large Language Models Be Trusted for AI-Based Intrusion Detection in Cybersecurity? An Evidence-Grounded Log Analysis	1560
<i>Hossein Beyzavi, Sandeep Shiraskar, Abeer Albluwi, Maram Albalawi, Dominick Rizk, Frederic Rizk, Patrick Rizk, Georges Nehmetallah, Rodrigue Rizk, KC Santosh</i>	
Dynamic Agentic AI Expert Profiler System Architecture for Multidomain Intelligence Modeling	1566
<i>Aisvarya Adeseye, Jouni Isoaho, Seppo Virtanen, Mohammad Tahir</i>	
Table-First Guarded Reasoning: Outperforming Larger MLLMs in Chart Question Answering	1572
<i>Andrew Aziz, Mohamed Abbas, Kirolos Fouty, Shaza Ali, MagdElDin Mohamed, Tarek Kassab, Ahmed Yassin Tawfik, Hossam Sharara, Cherif Salama</i>	
Home Sound Uroflowmetry as an Alternative to Conventional Uroflowmetry Using Convolutional Neural Networks*	1578
<i>Chioma K. Okafor, Sasha-Gay Wright, Lindon Falconer, Melisa Williams-Longmore, Alfonso Bahillo</i>	
A Privacy-Preserving Framework for Cyber Incident Analysis from Network Packets Using +Large Language Models	1583
<i>Md Naeemur Rahman, Mohammad Tahir, Jouni Isoaho, Seppo Virtanen</i>	
Cross-Modal Proxy Prompt Alignment for Fine-Grained Image Classification	1589
<i>Jin Han, Junlin Hu</i>	

Appearance-Based Cyberbullying Detection in Dialectal Arabic: A New Gulf Body-Shaming Benchmark and MARBERTv2-based Classification Framework	1595
<i>Abeer Albluwi, Maram Albalawi, Sandeep Shiraskar, Arohi Shiraskar, Hossein Beyzavi Georges Nehmetallah, Frederic Rizk, Patrick Rizk, Rodrigue Rizk, KC Santosh, Dominick Rizk</i>	
A Shape Is Worth 512 Numbers: Spectral-domain Diffusion Modeling for 3D Shape Generation	1601
<i>Jiajie Fan, Amal Trigui, Andrea Bonfanti, Felix Dietrich, Thomas Bäck, Hao Wang</i>	
A Causal Information-Flow Framework for Unbiased Learning-to-Rank	1608
<i>Haoming Gong, Qingyao Ai, Zhihao Tao, Yongfeng Zhang</i>	
Emotion-Aware Voice Monitoring: Mapping Continuous VAD to Operationally Interpretable Affect Levels	1614
<i>Salma Ait Fares, James Birchall</i>	
Automated Compact Neural Network Design via Evolutionary Algorithm	1620
<i>Helena Matilde-Milán, F.J. Rodríguez-Díaz, Daniel Molina</i>	
Cognitive Load as a Lens for Understanding AI-Augmented Workflows in Agile Teams	1626
<i>Dominik Palla, Ondrej Krejcar, Ali Selamat, José Ramón Trillo</i>	
Modelling Children’s Language: Vikidia-based Resources to Support Italian Text Simplification	1632
<i>Andrea Tirico, Marco Braga, Emiliana Murgia, Gabriella Pasi</i>	
The Eyes of GPAI: View Alignment Self-Supervised Learning in the Context of General Purpose Artificial Intelligence	1638
<i>David De La Rosa, María José Del Jesus, Francisco Charte</i>	
A Fuzzy Based-rule Adaptive Federated Learning for constructing a Trustworthy GPAIS	1644
<i>María Asunción Padilla-Rascón, Ángel Miguel García-Vico, Cristóbal J. Carmona</i>	
Foundation Model-Driven Auto-Annotation: A Multi-Modal Toolbox for General-Purpose Data Labeling*	1650
<i>Nikolaos Ntampakis, George Tziolas, Vlasios Dimitriadis, Christos Vasilakis, Georgios Tsiamitas Albertos Markakis, Charalampos Kolokouris, Vasileios Argyriou, Panagiotis Sarigiannidis</i>	
Investigating the Impact of Speech Enhancement on Audio Deepfake Detection in Noisy Environments	1656
<i>Angela Anacin, Shruti Kshirsagar, Anderson R. Avila</i>	
AI-based Classification of Research Papers using Abstract Text for Keyword, Domain, and SDG Prediction Aligned with SDG 4: Quality Education	1662
<i>Aljawharah Bin Omran, Ghaidaa Alqahtani, Joudy Althumayri, Leen Alharbi, Raghad Ababtain Tasneem Alqahtani, Amel ElKsibi</i>	
Multimodal Fusion for Time Series Forecasting: Learning from Temporal and Visual Data	1668
<i>José Manuel Oliveira, Patrícia Ramos</i>	
Explainable AI for Early Detection of Depression: A Transfer Learning Approach Using Social Media Text	1674
<i>Raneem Alyami, Reema Almulla, Samar Almutairi, Menirah Alfadhel, Banh Alsehibani, Tasneem Alqahtani Amel Ksibi</i>	
LSBMAR: Latent Schrödinger Bridge for Metal Artifact Reduction in CT Scans*	1680
<i>Luca Zaccagna, Andrea Salfinger, Tiziano Vallisa, Lauro Snidaro</i>	

Georeferenced Monocular Traffic Monitoring with Pseudo-Label Adaptation and Consistency Metrics	1686
<i>Javier Borau-Bernad, Mario Mediavilla, José María Armingol Moreno, Araceli Sanchis de Miguel</i>	
Enhancing Road-Work Safety: AI Driven Multi-Camera Vehicle Tracking in V2I Cooperation for Lane Maintenance	1692
<i>David Yagüe-Cuevas, Carlos Castellanos, Pablo Marín-Plaza, María-Paz Sesmero, José-María Armingol Araceli Sanchis</i>	
From Neural Endophenotypes to Secure Human–Machine Interaction: Identifying Empathy-Related Vulnerabilities from Resting-State qEEG using Deep Learning*	1698
<i>Sioui Maldonado-Bouchard, Amir Saki, Usef Faghihi, Mathieu Brideau-Duquette, Patrice Renaud</i>	
SwiNNet-Galaxy: Hierarchically Constrained and Rotation-Aware Hybrid CNN-Transformer for Galaxy Morphology Regression	1706
<i>Sandeep Shiraskar, Hossein Beyzavi, Arohi Shiraskar, Georges Nehmetallah, Dominick Rizk, Frederic Rizk Patrick Rizk, KC Santosh, Rodrigue Rizk</i>	
Federated TabTransformer: Self-Attention Based Privacy-Preserving Anomaly Detection for Heterogeneous IoT Telemetry	1712
<i>Mohammed Golam Kaiser Hossain Bhuyan, Sandeep Shiraskar, Meer Aamir Abbas, Hossein Beyzavi Georges Nehmetallah, Dominick Rizk, Patrick Rizk, Rodrigue Rizk, KC Santosh, Frederic Rizk</i>	
Generative AI-driven Group Emotion Recognition: A Comparative Analysis of Holistic and Compositional Strategies	1718
<i>Pasquale Molinaro, Mattia Presta, Giancarlo Fortino</i>	
Dynamic Temporal Attention Enhanced Multi-scale Hierarchical Network for Micro-expression Recognition	1724
<i>Yee Hwai Yip, Junlin Hu</i>	
A new early stopping proposal for efficient generative model inversion attacks	1730
<i>F. Moreno, A. Rivera, M.J. del Jesus, M. D. Pérez-Godoy</i>	
Generating Domain Models for Automated Planning from Natural Language Descriptions	1736
<i>Giacomo Acitelli, Andrea Marrella, Jacopo Rossi, Giada Troilo, Han van der Aa</i>	
A Scalable Extension of an AIS–Satellite Fusion Architecture for Reliable Preprocessing of Vessel Trajectories in Anomaly Detection Applications	1742
<i>Andrea López, Pablo Zubasti, Jesús García, José M. Molina</i>	
Simulation-Based Digital Twins for Decision Support in Urban Bike-Sharing Systems	1748
<i>Christian Calderón, Pasqual Martí, Jaume Jordán, Javier Palanca, Vicente Julian</i>	
Pedaling through agent-based modeling in geospatial contexts: a methodological approach	1754
<i>Javier Santos Menéndez, Jose Antonio Iglesias, Agapito Ledezma</i>	
Emotion Recognition in Driver-Centered ADAS: A Modular Vision-Based Approach for In-Cabin Monitoring	1760
<i>José Antonio Iglesias, Matthias Alexander Gdanielz, María Paz Sesmero, Araceli Sanchis, Agapito Ledezma</i>	
Visual Deep Reinforcement Learning for Adaptive Traffic Signal Control: A Neuro-Symbolic XAI Approach	1766
<i>Diego Caballero, María-Paz Sesmero, José María Armingol, Araceli Sanchis</i>	

A Containerized Multimodal Architecture for On-Device Driver-State Feedback with ROS 2 and Edge AI Services	1772
<i>Raul Fernandez-Matellan, David Martin Gomez, Arturo de la Escalera Hueso</i>	
Can Large Language Models Be Trusted for AI-Based Intrusion Detection in Cybersecurity? An Evidence-Grounded Log Analysis	1778
<i>Hossein Beyzavi, Sandeep Shiraskar, Abeer Albluwi, Maram Albalawi, Dominick Rizk, Frederic Rizk, Patrick Rizk, Georges Nehmetallah, Rodrigue Rizk, KC Santosh</i>	
High-Assurance Bot Detection on Steam: A Hybrid Ensemble Learning Framework for Detecting Automated Steam Accounts Using Profile Metadata	1784
<i>Eoin Smylie, Sandeep Shiraskar, Hossein Beyzavi, Arohi Shiraskar, Abeer Albluwi, Maram Albalawi, Georges Nehmetallah, Frederic Rizk, Patrick Rizk, Rodrigue Rizk, KC Santosh, Dominick Rizk</i>	
CHORD: A Novel XAI Framework for Guiding Counterfactuals via Higher-Order Sensitivity Analysis	1790
<i>Zohaib Shahid, Yogachandran Rahulamathavan, Safak Dogan</i>	
V2X-Enabled Infrastructure Support for Autonomous Navigation in Dynamic Road Configurations	1796
<i>David Yagüe-Cuevas, Carlos Castellanos, Felipe Jiménez, Pablo Marín-Plaza, José E. Naranjo, Mario Pérez, Araceli Sanchis, María-Paz Sesmero, José-María Armingol, Elisa Pérez, Váleriy Quintal</i>	
A Grover-Based Approach to Find the Optimal Solution in the “Single Piece Remaining” Puzzle	1802
<i>J. Prado, I. Rojas, M.P. Cuéllar</i>	
PREFENSE: A Capability-Aware Benchmark for Evaluating Contextual-Grounded Prompting in LLM-Based Security Investigation	1807
<i>Vaishali Vinay, Arth Bhardwaj</i>	
Trajectory Extraction for Urban Roundabouts from Aerial Imagery: A Proof-of-Concept for the Dataset for Observation of Navigation in Urban Traffic	1813
<i>Jorge García-González, Lucia M. Doval, Javier Fernández-Andres, Nourdine Aliane, Javier Sánchez-Soriano</i>	
Partial Audio Deepfake Detection: Are We Really Detecting Synthetic Media or Just Dataset Content Biases?	1819
<i>Arthur Pimentel, Yi Zhu, Tiago H. Falk</i>	
Granular Convolutional Neural Networks: Interpretable Classification with Uncertainty Quantification	1825
<i>Inas Shadoul, Majdi Mansouri, Mostefa Mesbah, Rami Al-Hmouz</i>	
Transformer-UNet Architecture for Document Dewarping and Layout Analysis	1831
<i>Olesia Omelchuk, Saad B. Ahmed</i>	
Graph Neural Networks and Language Models for Context-Aware Academic Performance Evaluation	1837
<i>Abhinav Pandey, Saad B. Ahmed</i>	
Neuro-Adaptive Agentic AI Platform (NAAP): A Cognitive-Technological Framework for Cybersecurity and Human Performance Optimization	1844
<i>Andrea Pitrone, Ouns Bouachir, Intissar Haddiya</i>	
A Distributed Spatio-Temporal Deep Q-Network for On-Demand Ridesharing	1852
<i>Benjamin Lartey, Lydia Zeleke, Abdul-Rauf Nuhu, Abdollah Homaifar</i>	

P -MAPPO: Feasibility-Projected Multi-Agent PPO for Discrete Macro-Actions with Application to Dynamic Airspace Sectorization	1859
<i>Mercedes Premalatha Ramesh, Imen Dhief, Zhimin Li, Meng-Hsueh Hsieh, Mir Feroskhan</i>	
Human-AI Co-Teaching: Agentic, Generative Hints for Close Reading and Source Criticism	1867
<i>Kingston Pal Thamburaj, Mercedes Premalatha Ramesh, Umayalambigai Ramakrishnan</i>	
Online Continual Spatio-Temporal Learning for Change-Resilient Blocking Prediction in Elastic Optical Networks	1873
<i>Farzaneh Nourmohammadi, Jaume Comellas, Uzay Kaymak</i>	
Heat Learning and Rationale-Aware SSL: Boosting Recommender Systems with Residual Graph Transformers	1879
<i>Seif Eldin Amgad, Sahar Guebsi, Eya Mhedhbi, Alice Othmani</i>	
Dynamic Event-Triggered MPC for Nonlinear Systems: Application to Vehicle Active Suspensions*	1886
<i>Wenting He, Daiwen Yao, Michael Shi, Xin Yu, Ning Zhao, Huiyan Zhang, Levente Kovács</i>	
V2X enhanced Digital Twin for public bus priority. Towards Agentic-enabled Transport Systems	1892
<i>Antonio Lalaguna, Elena Lopez-Aguilera, Ivan Rodero, Juan Jose Ruiz, Ma Paz Linares, Karina Gibert</i>	
Adaptive Computational Intelligence for Next-Generation Nursing and Assistive Robotics	1898
<i>Martha-Ivon Cardenas, Sotiris Avgousti, Eftychios G. Christoforou, Eleftherios G. Vourkos</i>	
Meta-Learning for Few-Shot Spectroscopic Regression under Distribution Shifts in Smart Agriculture	1904
<i>Iván Garzón, Guillermo Gomez-Trenado, Sergio Damas</i>	
Is My Text in Your AI Model? Gradient-based Membership Inference Test applied to LLMs	1910
<i>Gonzalo Mancera, Daniel DeAlcala, Julian Fierrez, Ruben Tolosana, Aythami Morales</i>	
A Conceptual Framework Based on AI Agents and Multimodal Prompt Engineering for Personalized and Adaptive Educational Experiences*	1917
<i>Adriana Reveiu, Diana-Elena Chivu</i>	
Experimental Validation of Autonomous Search for an RF Emitter in an Unknown Indoor Environment	1923
<i>Kim Hoanh Ly, Du Yong Kim, Branko Ristic, Ehsan Asadi, Akram Al-Hourani</i>	
Do AI Models Have Values? Measuring Cultural Value Orientations Across 30 Large Language Models	1929
<i>Sophie Zhang, Qiwei Han</i>	
Swarm Intelligence for Dynamic 3D Pollution Peak Detection Using Drones	1935
<i>Oliver J. Prior, M A Hannan Bin Azhar, Vijay Sahota, Scott Turner</i>	
Quantum Möbius Transform via Block Encoding	1941
<i>Cezary Pilaszewicz</i>	
A Quadratic Unconstrained Binary Optimization Formulation for the Knight's Tour Problem	1946
<i>Luisa M. Mesequer, José Ramón Trillo, M.P. Cuéllar, Pedro A. Castillo</i>	
AI-Enabled Sustainable Medical Supply Distribution Using Hybrid GA-QL in Dynamic Urban Environments	1952
<i>Fathi M. Smaili, Fatima A. Omar, Manar O. Alaklbi, Nouran M. Alqarni, Rahaf N. Albishi Noura A. Almutawa, Shahad G. Alshahrani</i>	

Exploring Deep Learning and Ultra-Widefield Imaging for Diabetic Retinopathy and Macular Edema	1958
<i>Pablo Jimenez-Lizcano, Sergio Romero-Tapiador, Ruben Tolosana, Aythami Morales</i>	
<i>Guillermo González de Rivera, Ruben Vera-Rodriguez, Julian Fierrez</i>	
Adaptation and Evaluation of EEG Classifiers for Regression-based Hand Trajectory Decoding	1964
<i>Miho Ohsaki, Minoru Inoue, Kimiaki Shirahama</i>	
Saliency-Guided Action Quality Assessment: An AI-Augmented Framework for Skill Evaluation in Physical Education	1970
<i>Jiang Liu, Qiqi Huang, Yixiao Li, Yueran Ma, Yao Fu, Xiaochang Liu, Yingying Wu, Wei Zhou</i>	
<i>Katarzyna Stawarz, Hantao Liu</i>	
Automated detection of Enterobius vermicularis eggs in microscopic images using YOLOv8	1976
<i>Srikrishna Kataru, Atul Dubey</i>	
Convolutional Neural Network Pipeline with Feature Synthesis for Cardiovascular Risk Prediction	1982
<i>Ibtasam Ur Rehman, Jibran K. Yousafzai, Abdurraqeb Alhammadi, Muhammad Ikram, Maheen Ishfaq</i>	
Lightweight Machine Learning Models for Pneumonia Detection in Chest Radiographs	1988
<i>Ibtasam Ur Rehman, Jibran K. Yousafzai, Abdurraqeb Alhammadi, Muhammad Ikram, Zoha Farooq</i>	
<i>Maheen Ishfaq</i>	
The Evolution of Kubernetes Architecture for General-Purpose AI Systems (GPAIS)	1994
<i>Antonio Ojea</i>	
FLEXible: Enabling Federated Learning in Android devices	1999
<i>Mario García-Márquez, Nuria Rodríguez-Barroso, M. Victoria Luzón, Francisco Herrera</i>	
Optimal Energy Management for a Car-Sharing Operator using Clustering Techniques	2005
<i>Mario Galán, Carmen M. Valenzuela, Sebastián De La Torre, José Antonio Aguado</i>	
Matrix Product States as a framework for efficient simulation of quantum kernel methods for classification	2013
<i>Antonio J. Rivera-Pérez, Noelia Sánchez-Gómez, Jara J. Bermejo-Vega, Carlos Cano</i>	
Discrete quantum-classical walks for link prediction	2019
<i>A. Marín, M. Soto-Gomez, G. Valentini, E. Casiraghi, C. Cano, D. Manzano</i>	
Longitudinal Digital Phenotyping for Early Cognitive-Motor Screening	2025
<i>Diego Jimenez-Oviedo, Ruben Vera-Rodriguez, Ruben Tolosana, Juan Carlos Ruiz-Garcia</i>	
<i>Jaime Herreros-Rodriguez</i>	
Exploring Representation Learning for Developmental Infant EEG	2031
<i>Jaime Uclés, Kristina Stemikovskaya, Lina M. Cómbita, M. Ángeles Ballesteros-Duperón, M. Rosario Rueda</i>	
<i>Alberto Fernández, Isaac Triguero</i>	
EM-Auth: A Generalizable Eye-Movement Authentication Framework using Event Cameras	2037
<i>Luan Ba Dang, Vu Tuan Truong, Long Bao Le, Tiago H. Falk</i>	
RunAgent: Interpreting Natural-Language Plans with Constraint-Guided Execution	2043
<i>Arunabh Srivastava, Mohammad A. Amir Khojastepour, Giuseppe Coviello, Kunal Rao, Srimat Chakradhar</i>	
<i>Sennur Ulukus</i>	
Evolutionary Quantum Neural Networks for Heart Disease Classification	2049
<i>Giovanni Acampora, Angela Chiatto, Autilia Vitiello</i>	

Quantum Kernels for SVM Entanglement Detection	2055
<i>Ernesto Acosta, Carlos Cano, Daniel Manzano, Guillermo Botella</i>	
Design of Heuristics for the Electric Vehicle Routing Problem by Genetic Programming: Investigation of Solution Size Influence	2061
<i>Marko Đurasević, Francisco Javier Gil Gala</i>	
AI in entrepreneurship training in higher education: foundations for the design of Virtual EmpreCoach	2063
<i>Fernando Trujillo Sáez, Adrián Romero Olmedo</i>	
Towards Efficient Intrusion Detection: Feature Selection in Multiclass CNNs with Numerical Inputs	2069
<i>Inaê Soares de Figueiredo, Leandro Aparecido Passos Junior, Douglas Rodrigues, Danilo Samuel Jodas, Fabrício Steinle Amoroso, Anderson Raymundo Avila, João Paulo Papa, Kelton Augusto Pontara de Costa</i>	
Framework for Curriculum-Centric AI Integration in Higher Education: Balancing Innovation, Integrity, and Learning Outcomes	2075
<i>Alaa Marshan, Mariam Cirovic, Athina Ioannou</i>	
Joint Optimized Supervised and Self-Supervised Embedding Learning for Legal Compliance in documents for Public Companies	2083
<i>Gabriel Bertocco, Alexandre Pacelli, Vinicius Dias, Tiago Carvalho</i>	
Gender Fairness in Audio Deepfake Detection: Performance and Disparity Analysis	2089
<i>Aishwarya Fursule, Shruti Kshirsagar, Anderson R. Avila</i>	
Lightweight LLM Adaptation for Intrusion Detection via Token-Efficient Flow Representation	2095
<i>Akram Laamari, Hajar Moudoud, Zakaria Abou El Houda</i>	
Comparative Analysis of Machine Learning, LLMs, and RAG for Fake News Detection	2101
<i>Yassin Sadfi, Hazem Amamou, Alan Davoust, Anderson R. Avila</i>	
Neural Aided Kalman Filtering for UAV State Estimation in Degraded Sensing Environments	2107
<i>Akhil Gupta, Erhan Guven</i>	
Agentic AI as a Cybersecurity Attack Surface: Threats, Exploits, and Defenses in Runtime Supply Chains	2115
<i>Xiaochong Jiang, Shiqi Yang, Wenting Yang, Yichen Liu, Cheng Ji</i>	
Bridging the Infrastructure Gap: An AI-Driven Framework for Automated Grant Matching in Environmentally Threatened Rural Communities	2123
<i>Alpana Desai</i>	
Efficient Disruption of Criminal Networks through Multi-Objective Genetic Algorithms	2126
<i>Yehezkiel Darmadi, Thanh Thi Nguyen, Campbell Wilson</i>	