



TIME (AMSTERDAM) CEST/UTC+2	Thu September 3	Fri September 4
09:15 AM	Delegates Login	Delegates Login
09:30 AM - 11:00 AM	Opening + Keynote Talks • Bedir Tekinerdogan (Wageningen University) • Fabio Paternò (Italian National Research Council)	Keynote Talks • Gyu Myoung Lee (Liverpool John Moores University) • Francesco Flammini (IDSIA, Switzerland)
11:00 AM - 11:30 AM	Break	Break
11:30 AM - 12:45 PM	Paper Presentations • Session 1: Computer Vision • Session 2: Agents & Autonomy	Paper Presentations • Session 7: Data Science • Session 8: IoT & Cyber-Physical Systems
12:45 PM - 01:30 PM	Lunch Break	Lunch Break
01:30 PM - 03:30 PM	Paper Presentations • Session 3: Large Language Models • Session 4: Smart Healthcare	Paper Presentations • Session 9: Machine Learning • Session 10: Trust, Ethics & Governance
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:00 PM	Paper Presentations • Session 5: Sustainable & Smart Cities • Session 6: Human-Centered AI	Paper Presentations • Session 11: Security & Privacy • Session 12: Industrial & Enterprise AI
05:00 PM Onwards		Conference Closing

Intelligent Systems Conference 2026

Day 1 - September 3

Session 1: Computer Vision

Sept 3 | 11:30 AM - 12:45 PM

- 54 - Vision-Led Novelty Screening for Video Archives (Yaswanth Sai Kamma)
- 59 - Fast Event-Driven Pedestrian Crossing Detection Using Spiking Neural Networks with Adaptive Modulation (Henok Teklu)
- 124 - ArchVR: An End-to-End Pipeline for Text-to-3D Floor Plan Generation via Foundational Models and Procedural Vectorization (Sanjay Balaji Mahalingam)
- 136 - Improving the Stable Diffusion Model (Antonio Esteves)
- 323 - SafeWalk: AI-Driven Footpath Safety Assessment and Navigation Using Image Segmentation and Crowdsourced Data (Indraneel KVS)
- 346 - Low-Light Robust Object Detection via Data Augmentation: A Comparative Study of Transformer-Based Models (Yan Zhang)
- 555 - FishToken-GCN: Cross-Layer Graph Relation Learning for Fine-Grained Underwater Fish Classification (Ikram Kourbane)
- 129 - Motion Differential Extraction Using Spatial-Temporal Signal Conversion (Weibo Gong)

Session 2: Agents & Autonomy

Sept 3 | 11:30 AM - 12:45 PM

- 39 - Samarthya: Human-in-the-Loop Interview System (Abhishek Bhat)
- 40 - ASTRA: Agentic Steerability and Risk Assessment Framework (Itay Hazan)
- 84 - Hybrid Chess Search: Combining Alpha-Beta and Monte Carlo Tree Search on Unified Memory Architectures (Nripesh Niketan Bharathi)
- 92 - Agentic N-Way DataSynCS for IT, Manufacturing and Quantum Optimization (Tammy Fuller)
- 147 - Autonomous Issue Resolver: Towards Zero-Touch Code Maintenance (Aliaksei Kaliutau)
- 237 - Heuristic Search in AI-Assisted Discovery: A Recursive Architecture (Francisco C. Sercovich)
- 531 - Synth: Code as the Control Plane for Long-Horizon Agents (Shriyans Gandhi)
- 125 - Adaptive Policy Selection for UAV-Based Radar Search Under Non-Stationary Conditions (Noor Ghausuddin Khial)

Session 3: Large Language Models

Sept 3 | 01:30 PM - 03:30 PM

- 8 - Green Conversational AI at the Edge: Energy-Aware Optimization and Adaptive Quantization for Sustainable LLM Inference (Naveen Anand Mishra)
- 41 - FINTEMPORAL: Complementing Large Language Models with Entity-Temporal Knowledge Graphs to Improve Numerical Accuracy in Financial Analysis (Cheng Wang)
- 99 - A Multi-Model Comparison of RAG Methods for Grant Requirement Extraction via SolicitationWizard (Yulia Kumar)
- 135 - Executable Intent: Making LLM Workflows Enterprise-Ready with Domain-Specific Languages (Salvatore Vella)
- 172 - Knowledge-Graph Based RAG System Evaluation Framework (Sicheng Dong)
- 226 - Finding the Efficiency Sweet Spot in Compressed Large Language Models Through Resource and Cost Analysis (Okan Karaoglan)
- 287 - RAG-Based Intelligence for Adaptive Task Assignment and Risk Mitigation in Agile Workflows (Lakshmi Kamath)
- 300 - External Critical Reflection Module (eCRM): A Model-Agnostic Epistemic Control Architecture for Deep Reasoning in Language Models (Danijel Stenzel)
- 465 - Semantic Vectorization and LLMs for Predicting Emergency Fire Service Activity from Weather Bulletins (SIRRI Naoufal)
- 535 - Ground Truth: Evaluating Responses Between LLMs to Identify Agreement (Ram Dantu)

Session 4: Smart Healthcare

Sept 3 | 01:30 PM - 03:30 PM

- 78 - Advanced Technologies and Artificial Intelligence Tools for Radiation Safety and Protection on Medical Devices: A Review (Ben Kotze)
- 95 - From Detection to Decision: A RAG-LLM Clinical Digital Assistant for Intracranial Hemorrhage Using a Lightweight CT Model (Victor Alves)
- 100 - An Eight-Phase Pipeline for Clinical Risk Prediction Using PCA, K-Means, and KNN on MIMIC-III (Remigio Hurtado)
- 256 - AI Conceptual Framework for Early Detection of Psychosomatic Disorders (Ayesha Moqbel Alqahtani)
- 271 - Early Detection and Classification of Cervical Cancer Using Deep Learning (Sanjaya Sankar)
- 314 - Diabetes Prediction and Recommendation System Based on Laboratory Results Using Machine Learning (Hamit Furkan Koca)
- 316 - Anomaly Detection in Generative Multimodal Medical Image Super-Resolution (Antonio Liotta)
- 317 - GNNA: Gradient Nearest Neighbors Algorithm for Healthcare Data Analysis (Arwa Zabian)
- 475 - Robust Diabetic Retinopathy Grading via Energy-Based Margin Learning (Rami Alroobi)
- 478 - Effect of the Kullback-Leibler Prior on Latent Space Structure in Breast Ultrasound Representation Learning (Rami Alroobi)
- 572 - Computer-Based Classification and Multivariate Analysis of Infant General Movements (Guilherme Gräf Schüler)

Session 5: Sustainable & Smart Cities

Sept 3 | 03:45 PM - 05:00 PM

- 16 - Analysing Consumer Motivation and Attitude Towards the Adoption of Electric Vehicle Charging Stations on Private Properties via Social Media Analytics (Omid Fatahi Valilai)
- 29 - Exploring Digital Twin Technology for Air Cargo Operations Planning and Management with a Sustainability Target (Omid Fatahi Valilai)
- 30 - Realization of Extended Producer Responsibility Through Advanced Party Logistics and Life Cycle Assessment Models: A Systematic Literature Review (Omid Fatahi Valilai)
- 51 - GoPark: An AI-Powered Parking Recommendation System (Gia Huy Phung)
- 52 - Digital Ecosystem for Sustainable Development: Air Quality Monitoring and Environmental Assessment Based on the Synergy of IoT and AI Tools (Ramin Rzayev)
- 258 - Artificial Intelligence in the Built Environment: A Scoping Review and Responsible-Adoption Framework (Farshid Torabian)
- 530 - Satellite-Only Mangrove Carbon Model Performance Depends on Evaluation Design (Kavita Jattansingh)

Session 6: Human-Centered AI

Sept 3 | 03:45 PM - 05:00 PM

- 97 - AI-Driven Adaptivity in Immersive Learning Environments: Towards a Unified Framework for Personalized Virtual Education (Vatroslav Zuppa Baksa)
- 119 - Beyond Usability: A Comprehensive Evaluation Instrument for AI-Generated Digital Educational Resources in Higher Education (Md Saifuddin Khalid)
- 149 - Perceptions of Attendance Chart Usefulness: Insights from School Stakeholders and Demographic Variations in Addressing Absenteeism (Miselta Tita)
- 234 - From Algorithm to Empathy: Functional Classification of AI Systems in Contemporary Education (Ivanka Valova)
- 246 - Intelligent Systems in Cognitive-Adaptive Learning: An Algorithm (Igor Val Danilov)
- 272 - Generative AI and Human-AI Collaboration in Learning Exploring Transversal Competences among Future Vocational Teachers (Jan-Phillip Lüttke)
- 325 - KrishivaaniAI: AI Driven Agriculture Advisory System for Enhancing Rural Farmer Support with Indic Languages (Sreecharan Palepu)

Intelligent Systems Conference 2026 Day 2 - September 4

Session 7: Data Science

Sept 4 | 11:30 AM - 12:45 PM

- 31 - On the Efficiency of Sequentially Aware Recommender Systems: Cotten4Rec (Uzma Mushtaque)
- 80 - Investigating the Fundamental Limit: A Feasibility Study of Hybrid-Neural Archival (Marcus Armstrong)
- 102 - Unsupervised Machine Learning for Tourist Segmentation: A Case Study in Ecuador (Priscila Valdiviezo-Diaz)
- 110 - From Viral Moments to Revenue Growth: Quantifying the Predictive Impact of Social Media Signals on Corporate Financial Outcomes (Deeksha Athreya)
- 189 - Student Profiling Using Clustering for Academic Behavior Analytics (Ahmad Abushakra)
- 286 - GSIP: A Model-Agnostic Framework for Scalable Geospatial Inference (Rati Vardiashvili)
- 477 - On the Optimal Number of Training Sessions for Long Distance Running (Ruthven Kurbanali II)
- 514 - Paired-Report Temporal Classification for Longitudinal Oncology Tracking (Sunita Chauhan)

Session 8: IoT & Cyber-Physical Systems

Sept 4 | 11:30 AM - 12:45 PM

- 74 - A Smart Handover Based on Deep Learning for Vehicle-to-Infrastructure Communications (Hala Eldaw)
- 90 - Designing a Wearable Device to Improve Communication for Informed Decision-Making in Industry 4.0 Environments (Tânia Rocha)
- 111 - Multimodal Physiological Ensemble Deep Learning for Driver's Takeover Reaction Time Classification in Automated Vehicles (Jorge Pardo)
- 112 - Towards Understanding Intention Cues in Driving: An Explainable AI Approach (Jorge Pardo)
- 156 - Comparative Analysis of CPU Emulation Techniques for Embedded and IoT Systems: A Performance Evaluation of Translation and Interpretation-Based Simulation in the Renode Framework (Rafiuddin Syed)
- 164 - Data Synthesis and Semantic Mapping in Asset Administration Shells: Automating Digital Nameplate (Leonardo Pilarski)
- 308 - RFID-Assisted Low-Cost Intersection Scheduling: A Starvation-Free Layered Shortest-Service-Quantum Controller for Isolated Urban Intersections (Md Manirul Islam)

Session 9: Machine Learning

Sept 4 | 01:30 PM - 03:30 PM

- 62 - Wide-Long Short Term Memory for Stock Market Forecasting (Kody Mistry)
- 69 - Self-Organizing Map Implementation Improvements (Ventsislav Nikolov)
- 73 - A Systematic Approach to Supervised Machine Learning for the Classification of Exoplanet Candidates (Remigio Ismael Hurt)
- 75 - A Systematic Process for Credit Risk Prediction Using KNN, Random Forest and Neural Networks (Remigio Ismael Hurt)
- 77 - Decision Tree Prediction Model for the Impact of Single-Parent Families on Children's Gender Relation Perceptions and Motivation (Ines Hosni)
- 88 - Application of Artificial Intelligence for Speech Enhancement Using Wave-U-Net (Ben Kotze)
- 134 - Meteorological Data Forecasting with High-Performance Computing Using Long Short-Term Memory (Tiago Pinto)
- 510 - Independence Testing with Indefinite Kernels in Reproducing Kernel Krein Spaces (Kaijie Wang)
- 529 - Task-Aligned Contrastive Learning for Filtering Noise in Multi-Label Text Classification (Ram Dantu)
- 579 - Formalizing All Indexed Mathematics as a Benchmark for General Reasoning: Implementing Dilatations of Categories (Arnaud Mayeux)

Session 10: Trust, Ethics & Governance

Sept 4 | 01:30 PM - 03:30 PM

- 6 - An Alignment Pipeline to Ensure Crime Prediction Models Align with Criminal Justice Values (Jacob Verrey)
- 33 - Mapping the Intersection of Dark Patterns, Artificial Intelligence, and Large Language Models: A Bibliometric Analysis (Joshua C. Nwokeji)
- 161 - Neuro-Symbolic Approaches for Intelligent Legal Decision Support: A Survey (Dhatri P Sriram)
- 274 - Academ-AI: Documenting the Undisclosed Use of Generative Artificial Intelligence in Academic Publishing (Alex Glynn)
- 285 - Neuro-Symbolic Graph Neural Networks for Explainable Collusion Detection in Public Procurement (Marcos Leno Ferreira Pompeu)
- 303 - Benchmarking Explainability Methods for SME Credit Risk Models in Emerging Markets (Shoumya Chowdhury)
- 332 - Beyond Text: Emotion-Enhanced Graph Attention Networks for Propaganda Detection in Social Media (Rishit Rastogi)
- 352 - Investigating Public Opinion Towards Transportation Departments Using Multi-Model Sentiment Analysis on Social Media (Yan Zhang)
- 464 - Do XAI Methods Agree? A Comparative Study of Explainability in Brain MRI Imaging (Jason Wyatt)
- 524 - Operationalizing Trust in AI Outputs: A Multi-Signal, Task-Aware, Trust Scoring Framework (Kevan Rajaram)

Session 11: Security & Privacy

Sept 4 | 03:45 PM - 05:00 PM

- 10 - Privacy-Preserving Federated Learning for Conversational AI: A DP-Adapter Framework (Akbar Mohammed)
- 120 - CaptionFool: Universal Image Captioning Model Attacks (Swapnil Parekh)
- 126 - From Reconstruction to Temporal Membership Inference: Privacy Attacks and Defenses in Federated Learning (Firuz Juraev)
- 133 - A Federated Multimodal Framework for Sepsis Mortality Prediction in Intensive Care Units (Shatha Alduhayan)
- 140 - Systematization of Knowledge: Security and Safety in the Model Context Protocol Ecosystem (Suman Niroula)
- 310 - A CKKS-Enabled Decentralized Identity and Access Management Framework for Privacy-Preserving Medical Data Processing (Md Manirul Islam)
- 337 - Agentic AI Containment Architecture for Security Hardening (Mohamed ElBendary)

Session 12: Industrial & Enterprise AI

Sept 4 | 03:45 PM - 05:00 PM

- 27 - Creating a Social Network for Employee Communication and Visualization of Events in an Intelligent Video Surveillance System (Alexey Subbotin)
- 76 - Breaking the Binary: A Novel Approach to Modelling Hybrid Consumer Finance Solutions in the Space Between Borrowing and Saving (Dimitar Kazakov)
- 281 - Predicting Manipulation Strategies in Robotic Object Palletizing Operations Using Reinforcement Learning (S M Mizanoor Rahman)
- 398 - Intelligent Lifecycle and Quality-Aware Optimization of Distributed Data Pipelines (Waleed Al Shehri)
- 446 - GenAI-Driven Approach to RISC-V Supply Chain Exploration (Nenad Petrovic)
- 532 - Optimizing Reverse Logistics: A Spatio-Temporal ML Framework for Industrial Waste Forecasting (Aicha Ksouma)
- 534 - Dynamic Spatial Smoothing Based on Production Profile Similarity for Industrial Waste Forecasting (Aicha Ksouma)