



TIME (AMSTERDAM) CEST/UTC+2	Thu September 3	Fri September 4
09:00 AM	Check-in	Arrive
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	Poster Presentations + Break	Networking Break
11:30 AM - 12:45 PM	Paper Presentations • Session 1: Computer Vision • Session 2: Smart Healthcare	Paper Presentations • Session 7: Data Science • Session 8: IoT & Cyber-Physical Systems
12:45 PM - 01:30 PM	Lunch	Lunch
01:30 PM - 03:30 PM	Paper Presentations • Session 3: Large Language Models • Session 4: Agents & Autonomy	Paper Presentations • Session 9: Machine Learning • Session 10: Trust, Ethics & Governance
03:30 PM - 03:45 PM	Networking Break	Networking 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	Amsterdam Canal Cruise	Conference Closing

Intelligent Systems Conference 2026

Day 1 - September 3

Session 1: Computer Vision

Sept 3 | 11:30 AM - 12:45 PM | Meeting Room 2+3

Session Chair: Sherine Antoun

- 235 - Vanishing Depth: Training Generalized Depth Adapters with Sinusoidal Depth Preprocessing for Pretrained RGB Encoders (Paul Koch)
- 155 - BSMLR-Stereo: A Deterministic, Training-Free Hierarchical Pipeline for Reliable Long-Range Outdoor Stereo Depth (Rami Obead)
- 494 - Phase-Domain Peak Localization for Robust Structured-Light Imaging Under Reflective Conditions (Milan Curkovic)
- 105 - Computer Vision-Based Multispectral Verification of Printed Tickets Using Infraredesign and Dual Aztec Codes (Silvio Plehati, Jana Ziljak Grsic)
- 205 - A Lightweight Machine Learning Framework for Crossbreed Pig Identification via Auricular Vein Biometrics (Emmanuel Nsengiyumva)

Session 2: Smart Healthcare

Sept 3 | 11:30 AM - 12:45 PM | Meeting Room 1

Session Chair: Antoni Burguera

- 28 - Developing an AI Score for Diagnostic Decision Support Systems (Jan Kirchhoff)
- 255 - LIODet: Boundary-Aware Object Detection in Gigapixel Pathology Images Using Graph-Based Reconstruction (Antoni Burguera Burguera)
- 89 - NoHarm Care: An Intelligent System for Clinical Text Annotation Using Transformer Models (Juliana Damasio Oliveira)
- 334 - Interpretable Machine Learning for Chronic Kidney Disease (CKD) Screening: A Clinically Safe Approach to Minimize False Negatives (Maria Clara Falcão Guerra Barretto)
- 53 - Enhanced Predictive Model for Personalized Asthma Exacerbation Based on Patient's Biosignals and Environmental Factors (Sadel Muwahed, Samer Fakher Sawalha)

Session 3: Large Language Models

Sept 3 | 01:30 PM - 03:30 PM | Meeting Room 2+3

Session Chair: Gondy Leroy

- 7 - Large Language Model Augmented Forecasting for Sentiment Time Series (Peter Mitic)
- 167 - Parallel LLM Reasoning for Bias-Resilient, Robust Conceptual Abstraction (Aisvarya Adeseye)
- 148 - From Zero-Shot to Fine-Tuning: Classifying Privacy Policies with LLMs (Veronika Belcheva, Alexey Zhovner)
- 170 - Strengthening Human-Centric Chain-of-Thought Reasoning Integrity in LLMs via a Structured Prompt Framework (Jiling Zhou)
- 168 - Improving Quantized Model Performance in Qualitative Analysis with Multi-Pass Prompt Verification (Aisvarya Adeseye)
- 94 - Is it Time to Treat Prompts as Code? A Multi-Use Case Study for Prompt Optimization Using DSPy (Filipa Ferraz)
- 82 - Simulating Neurodiverse Communication Patterns in Large Language Models (Reno Yuri Camilleri)
- 169 - Entropy and Attention Dynamics in Small Language Models: A Trace-Level Structural Analysis on the TruthfulQA Benchmark (Aisvarya Adeseye)
- 36 - Balancing Accuracy and Confidence in LLMs: Reinforcement Learning with Entropy-Calibrated Rewards (Keizo Kato)

Session 4: Agents & Autonomy

Sept 3 | 01:30 PM - 03:30 PM | Meeting Room 1

Session Chair: Milan Curkovic

- 220 - A-LLM Definitional Primitives and a Transformation Calculus for Semantic Quality in Hybrid LLM-Knowledge Graph Systems (Hermann Bense)
- 500 - An Application Agnostic Conversational Agent for IoT Systems via Ontology Driven Unsupervised NL2SQL (Alex Vakaloudis)
- 19 - AGEL-Comp: A Neuro-Symbolic Framework for Compositional Generalization in Interactive Agents (Mahnoor Shahid)
- 117 - Real-Time Multimodal and Parent-Configured Social Robot for Child-Centered Language Interaction Using LLMs (Ahmad Aljaafreh)
- 122 - Utility of Unstructured World Event Features Quantified with a Multi-Agent LLM System (Belinda Soh)
- 128 - A Multi-Heuristic Approach to Workload Placement in Virtualisation Environments (Quenum Jose G)
- 496 - The Deployer Dilemma: Ensuring Effective Human Oversight across the AI Value Chain (Silvia Tessaro Trapani)
- 81 - Path Planning for Multiple Automated Guided Vehicles: An Adaptive Ant Colony Optimization Approach Incorporating Sub-Ant Technique (Arsénio Reis)
- 125 - Adaptive Policy Selection for UAV-Based Radar Search Under Non-Stationary Conditions (Noor Ghausuddin Khial, Naram Mhaisen)

Session 5: Sustainable & Smart Cities

Sept 3 | 03:45 PM - 05:00 PM | Meeting Room 2+3

Session Chair: Taiwo O Ayodele

- 4 - District Vitality Index Using Machine Learning Methods for Urban Planners (Sylvain Marcoux)
- 20 - SWAWG: A Smart Wearable Atmospheric Water Generation Ecosystem for Climate-Resilient Cities (Florence Leo-Patrick)
- 194 - Data-driven Parameter Estimation of Gray-Box Building Thermal Models (Ali Soleimani)
- 541 - A Dual-Pathway Location Model for STEMI Network Optimization (Okera Baptiste)
- 533 - Applying Agentic RAG Systems to Accelerate Sustainable Development in Small Island Developing States (SIDS) (Patrick Hosein)

Session 6: Human-Centered AI

Sept 3 | 03:45 PM - 05:00 PM | Meeting Room 1

Session Chair: Milan Curkovic

- 43 - Improving Autocomplete for Simplifying Health-Related Texts (Gondy Leroy)
- 157 - Next-Gen AI for Malaysian Native Language Translation (Rabiah Abdul Kadir)
- 204 - From Clinical to Educational Data: Ethical Pathways for Re-Purposing AI-Generated Patterns in Medical Training (Giannangelo Boccuzzi)
- 45 - Comparative Analysis of Classical and Large-Scale Multilingual Speech Synthesis Models for Saudi Arabic Dialect (Omar Mansour)
- 118 - Lightweight Multi-Task Architecture for Valence-Arousal Emotion Assessment (Alexey Yakushev)
- 506 - Multimodal Perception and Detection for Intelligent Manufacturing in Robotic Systems Using Deep Learning (Muhammad Javed)

05:00 PM onwards - Free Amsterdam Canal Cruise!

Don't miss the fun and exciting evening where we will take you on a boat tour to see some of Amsterdam's famous landmarks. This is also a great chance to mingle with other participants.

5:00 pm: Walk to the boat pier and board

5:15 pm - 8:00 pm: Amsterdam Canal Cruise on an Electric boat that will traverse through the city's some of the iconic waterways and landmarks. Enjoy with a snack platter and watch the scenery glide past. Drinks or Dinner is not included.

8:15 pm: Disembark and back to the conference venue

Intelligent Systems Conference 2026

Day 2 - September 4

Session 7: Data Science

Sept 4 | 11:30 AM - 12:45 PM | Meeting Room 2+3

Session Chair: Gondy Leroy

- 116 - PCA-Based Interpretable Knowledge Representation and Analysis of Geometric Design Parameters (Alexander Köhler)
- 162 - NovaADLS: Semi-Supervised Anomaly Detection in Log Series (Nayef Roqaya)
- 213 - Tattoo Image Embeddings Through Self-Supervised Transformer Learning (Abel Méndez Porras)
- 57 - Design of a Query Expression for Multi-Dimensional Graph Warehousing (Frank S.C. Tseng)
- 219 - From Risk Score to Audit Explanation: Two-Stage Procurement Fraud Detection in ERP (Nihal Yakut)
- 48 - Towards Better Dining Sector: Interpretable Sentiment Analysis of Jordanian Restaurants' Reviews (Rami Ibrahim)

Session 8: IoT & Cyber-Physical Systems

Sept 4 | 11:30 AM - 12:45 PM | Meeting Room 1

Session Chair: Sherine Antoun

- 98 - A Framework for AI-Enhanced Mobile Sensing in Bridge Structural Health Monitoring (Kevin Theunissen)
- 503 - Smart Chair for Posture Classification and Behavioral Sensing (Joe Carrion Jumbo)
- 229 - Hybrid Particle Swarm Optimization-Grey Wolf Optimization-Based Tuning of Fractional-Order PID Controllers for a Nonlinear Twin Rotor Aerodynamic System (Abebe Alemu Wendimu, Jakub Zeglen-Wlodarczyk)
- 42 - Digital Twin Hydration Intelligence for Wearable Atmospheric Water Generators (Onyekachi Joy Agwu)
- 163 - Considerations of a Communication Architecture for Smart Manufacturing (Herman J. Vermaak)

Session 9: Machine Learning

Sept 4 | 01:30 PM - 03:30 PM | Meeting Room 2+3

Session Chair: Kohei Arai

- 368 - Self-Organizing Map Assisted Industrial Anomaly Detection with Heterogeneous Features (**Chai Kiat Yeo**)
- 152 - Latent Boost: Enhancing Interpretability Through Loss-Defined Classification Objective in Structured Latent Spaces (**Daniel Geissler**)
- 277 - Entanglement-Aware Quantum Neural Network (EQNN) Scaling Laws and Comparative Classification Performance Across Expanding Hilbert Spaces (**Adehi Guehika**)
- 91 - Machine Learning-Based Story Point Estimation Using User Story Text Within a BPMN-Driven Planning Context (**Rihards Bobkovs**)
- 146 - Twin-QNN: Two-View Fusion with Variational Quantum Circuits for Sentiment Classification (**Alaa Altarazi**)
- 462 - Not all Errors are Equal: Improving Worst-Group Accuracy with Disagreement-Based Selective Prediction (**Amogh Varsh**)
- 518 - Short-Term Electricity Load Forecasting Using Machine Learning and Deep Learning: A Systematic Review (**Axel Zevallos-Aquije**)
- 160 - Predictive Model for Online Forum Engagement: A Hybrid Ant Colony Optimisation and Regression Approach (**Feziwe Lindiwe Yvonne Khomo**)
- 11 - Modeling the Critical Success Factors of Scrum Software Development Projects in South Africa (**Sandile Thamie Mhlanga**)

Session 10: Trust, Ethics & Governance

Sept 4 | 01:30 PM - 03:30 PM | Meeting Room 1

Session Chair: Marco Piumetti

- Human and Artificial Intelligence: limits, comparisons and possible synergies*
- 17 - Beyond Efficiency: Towards a Sustainable and Robust Synergy Between Natural and Artificial Intelligence (**Marco Piumetti**)
- 35 - Towards the Age of Sustainable Creativity: A Framework of Natural and Artificial Intelligence (**Marco Piumetti**)
- 34 - A Socio-Technical Lens on AI Adoption: Role Conflict and Ambiguity in Large Organizations (**Özgür Kartal**)
- 106 - Trust Calibration Under Risk: A Review of High-Stakes Human-AI Interaction and Collaboration (**Angela Rhodes (Fike)**)
- 108 - CIRCLE: A Framework for Evaluating AI from a Real-World Lens (**Marzieh Fadaee**)
- 195 - The AI Ethical Dilemma: A Multi-Framework Analysis of Moral Agency and Responsibility in AI Systems (**Sherine Antoun**)
- 197 - Bridging the AI Adoption Gap: A Practitioner Framework for Non-Technical Decision Makers (**Gregory Richardson**)
- 244 - Beyond Coding: How Students Use Generative AI Across the Full Software Development Lifecycle (**Silva Hekmat Matti**)
- 250 - From Cognition to Creation: Makiguchi's Theory of Value as a Framework for Evaluating AI-Integrated Pedagogy (**John Paulett**)

Session 11: Security & Privacy

Sept 4 | 03:45 PM - 05:00 PM | Meeting Room 2+3

Session Chair: Kohei Arai

- 64 - A Secure Architecture for End-to-End Email Authentication: Sessional Digital Signatures with Authenticity Completeness (**Ye Li**)
- 236 - BLUR: Spatially-Adaptive LiDAR Anonymization with Preserved Activity Recognition for Bathroom Monitoring (**Ariaz Hashemi**)
- 249 - LLM Risk in Legal Metrology: Threats, Gaps, and Controls (**Daniel Peters**)
- 251 - Beyond Guardrails: A Governance-by-Design Architecture for High-Assurance LLMs in Regulated Professional Domains (**Shivom Aggarwal**)
- 37 - A Privacy-by-Design Framework for Secure Handover and Authentication in 5G Mobile Networks (**Khutso Lebea**)
- 38 - Cyber-Physical Systems in Wireless Environments: An Analysis of Authentication and Confidentiality in Smart Grids (**Khutso Lebea**)

Session 12: Industrial & Enterprise AI

Sept 4 | 03:45 PM - 05:00 PM | Meeting Room 1

Session Chair: Taiwo O Ayodele

- 267 - GovtBench: A Multidimensional Evaluation Framework for Large Language Models in the Public Sector (**Tim Mulder**)
- 87 - Artificial Intelligence in Algorithmic Auditing: A Bibliometric Analysis of its Evolution, Trends, and Research Perspectives (**Patricia Rosalia Jimbo Santana**)
- 166 - Creating Twin Dyes in the Lighter Gray Tonal Range for Infrared-Responsive Black and White Photographs on Textile Materials (**Tomislav Bogovic, Aleksandra Bernasek Petrinc**)
- 206 - A Lightweight Machine Learning Approach for Smartphone-Based Pig Weight Estimation (**Leonard Niyitegeka**)
- 165 - EQUITY-NET: AI Solution for NHS Waiting List Reduction (**Taiwo O Ayodele**)