

# Agenda - Intelligent Systems Conference 2023 (For Virtual Attendees)

TIME (AMSTERDAM) CEST/ UTC+2	Thu Sep 7	Fri Sep 8
08:30 AM - 08:45 AM	Login	Login
08:45 AM - 09:00 AM	Welcome and Introduction	Welcome
09:00 AM - 11:00 AM	Conference Opening + Keynote Talks	Day Opening + Keynote Talks
11:00 AM - 11:30 AM	Break	Virtual Roundtable
11:30 AM - 12:45 PM	Paper Presentations	Paper Presentations
12:45 PM - 01:30 PM	Break	Break
01:30 PM - 03:30 PM	Paper Presentations	Paper Presentations
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:45 PM	Paper Presentations	Paper Presentations
05:45 PM Onwards		Conference Closing

## Day 1 - September 7, 2023

<b>Session 1: Deep Learning</b> Sep 7   11:30 AM - 12:45 PM	<b>Session 2: Data Science</b> Sep 7   11:30 AM - 12:45 PM	<b>Session 3: Agents and Multi-agent Systems</b> Sep 7   11:30 AM - 12:45 PM
<p>108 - Gesture Recognition of Filipino Sign Language using Convolutional and Long-Short Term Memory Neural Network</p> <p>355 - Ontology-based Post-Hoc Neural Network Explanations via Simultaneous Concept Extraction</p> <p>110 - Index Tracking via Learning to Predict Market Sensitivities</p> <p>447 - The Be-Hive Project - Counting Bee Traffic Based on Deep Learning and Pose Estimation</p> <p>219 - AgriScanNet-18: A Robust Multilayer CNN for Identification of Potato Plant Diseases</p>	<p>56 - SIM_RL: A New Approach for Integrating Simulation with Reinforcement Learning</p> <p>58 - Research on Music Recommendation Model with Limited Historical Data and User's Information</p> <p>204 - Development of a Decision Support System in a Canning Industry</p> <p>340 - Data-driven Decision-making Framework for Cost-efficient Energy Retrofit of Italian Residential Building Stock</p> <p>22 - Optimization of Agrivoltaic Plants: Development and Validation of a Numerical Model to Account for Shading Effects on Crop Yields</p>	<p>197 - Collective Intrinsic Motivation of a Multi-Agent System Based on Reinforcement Learning Algorithms</p> <p>194 - AI Tool for Exploring How Economic Activities Impact Local Ecosystems</p> <p>233 - The Influence of Gossip on the Absorption Probabilities in Moran Process</p> <p>314 - Principal-Agent Theory-based Analysis of China's Green Automotive Industry Strategies</p> <p>32 - Towards End-to-End Escape in Urban Autonomous Driving using Reinforcement Learning</p> <p>80 - Multi-agent Reinforcement Learning for Unmanned Aerial Vehicle Capture-the-Flag Game Behavior</p>

<b>Session 4: Deep Learning</b> Sep 7   01:30 PM - 03:30 PM	<b>Session 5: Data Science</b> Sep 7   01:30 PM - 03:30 PM	<b>Session 6: Computer Vision</b> Sep 7   01:30 PM - 03:30 PM
<p>212 - Attention-based Recurrent Neural Network for Multicriteria Recommendations</p> <p>68 - "Seeing Sound": Audio Classification using the Wigner-Ville Distribution and Convolutional Neural Networks</p> <p>195 - Identification of Potato Virus Y in Potato Plants using Deep Learning and GradCAM Verification</p> <p>198 - Using Simulated Data for Deep-Learning Based Real-World Apple Detection</p> <p>235 - Automatic Optimization-based Methods in Machine Learning: A Systematic Review</p> <p>419 - Vision-based Multi-detection and Tracking of Vehicles using the Convolutional Neural Network Model YOLO</p> <p>271 - TransX2GAN: Using Self-attention and Knowledge Transfer to Generate Face Images</p> <p>405 - Emotion Detection from Real-life Situations Based on Journal Entries using Machine Learning and Deep Learning Techniques</p>	<p>301 - Generating and Updating Supervised Data Mining Models on a Periodic Basis</p> <p>188 - Blockchain and AI for Optimizing Bank Data Security</p> <p>44 - MS-ETL: An Architecture for the Multiple Data Source Extraction, Transformation, and Load Applied to Solar Flares Data</p> <p>420 - A Method to Transform Datasets into Knowledge Graphs</p> <p>318 - Predictive Analysis of Bank Marketing for Financial Decision Support and Smart Economy</p> <p>321 - Wireless Sensor Networks Anomaly Detection using Machine Learning: A Survey</p> <p>324 - Android Malware Detection using Machine Learning: A Review</p> <p>280 - Study on Grade Discrimination Method of Traffic Accident Risk Factors Considering Road Type</p> <p>55 - Application of Mean-variance Cloning Technique to Investigate the Comparative Performance Analysis of Classical Classifiers on Imbalance and Balanced Data</p>	<p>114 - Autism Spectrum Disorder Detecting Mechanism on Social Communication Skills using Machine Learning Approaches</p> <p>367 - Q-Net: Query-Informed Few-shot Medical Image Segmentation</p> <p>375 - Kiwifruit Counting using Kiwidetector and Kiwitracker</p> <p>8 - Adversary Simulation of Structured Query Language (SQL) Injection Attack using Genetic Algorithm for Web Application Firewalls (WAF) Bypass</p> <p>177 - Factors Affecting Satisfaction of Virtual Reality (VR): Focused on Design and Affordance</p> <p>341 - DAP: A Framework for Driver Attention Prediction</p> <p>344 - On Object Detection based on Similarity Measures from Digital Maps</p> <p>52 - Fault Injection Framework for Organic Computing Architecture</p>

Session 7: Deep Learning Sep 7   03:45 PM - 05:45 PM	Session 8: Artificial Intelligence Sep 7   03:45 PM - 05:45 PM	Session 9: Computer Vision Sep 7   03:45 PM - 05:45 PM
<p>132 - Prototype App Mobile for Real Time American Sign Language Recognition based on Deep Learning</p> <p>125 - Detecting Standard Library Functions in Obfuscated Code</p> <p>343 - Exploring the Trade-off Between Performance and Cost in Facial Recognition: Deep Learning vs. Traditional Computer Vision</p> <p>457 - Using Ensemble Convolutional Neural Network to Detect Deepfakes using Periocular Data</p> <p>246 - A Hybrid Model for Novel Story Generation using the Affective Reasoner and ChatGPT</p> <p>17 - Application of Deep Q Learning with Simulation Results for Elevator Optimization</p> <p>283 - Why Neural Networks Work</p> <p>361 - A Comparison of Deep Learning Models for Periocular Region-based Authentication</p>	<p>289 - AI as a Threat to Education: Contrasting GPT-3 and Google in Answering Questions along Bloom's Taxonomy of Educational Objectives</p> <p>151 - Comparative Lightweight Scheme for Individual Identification through Hand-Vein Patterns</p> <p>97 - An Energy-efficient Reconfigurable Autoencoder Implementation on FPGA</p> <p>428 - Using AutoML to Analyze the Effect of Attendance and Seat Location on University Student Grades</p> <p>449 - Personalizing Text-to-Image Diffusion Models by Fine-Tuning Classification for AI Applications</p> <p>105 - Convergence of the Mini-batch SIHT Algorithm</p> <p>241 - Surveying Impacts of AI in Education and Creative Practices</p> <p>137 - Data-Driven Urban Air Mobility Flight Energy Consumption Prediction and Risk Assessment</p>	<p>111 - Web-based Extended Reality for Supporting Medical Education</p> <p>335 - Shared Intentionality before Birth: Emulating a Model of Mother-Fetus Communication for Developing</p> <p>345 - Virtualization of the Paint Mixing Process using the Hardware in the Loop Technique</p> <p>201 - RSV-SLAM: Toward Real-time Semantic Visual SLAM in Indoor Dynamic Environments</p> <p>356 - Locally Enhanced Chan-Vese Model with Anisotropic Mesh Adaptation for Intensity Inhomogeneous Image Segmentation</p> <p>244 - Answering Mickey Mouse: A Novel Authoring-based Learning Movie System to Promote Active Movie Watching for the Young Viewers</p>

## Day 2 - September 8, 2023

Session 10: Deep Learning Sep 8   11:30 AM - 12:45 PM	Session 11: Computational Intelligence Sep 8   11:30 AM - 12:45 PM	Session 12: Natural Language Processing Sep 8   11:30 AM - 12:45 PM
<p>29 - YOLO-based Object Detection in Industry 4.0 Fischertechnik Model Environment</p> <p>131 - ASR Bundestag: A Large-scale Political Debate Dataset in German</p> <p>351 - Solving a Dynamic Scheduling Problem for a Manufacturing System with Reinforcement Learning</p> <p>95 - Enhancing Decision Support Systems for the Energy Sector with Sustainable Artificial Intelligence Solutions</p> <p>98 - Pre-trained Deep Learning Models for Chest X-Rays' Classification: Views and Age-groups</p>	<p>274 - Substructure Discovery in Commonsense Relations using Graph Representation Learning</p> <p>297 - Autoadaptive Networks of Coherent Domains for "Intelligent" Quantum Computation and Quantum Information</p> <p>1 - Artificial Intelligence Algorithm for Optimizing PID Parameters to Control Weakly Damped Systems</p> <p>303 - HyMO-RF: Automatic Hyperparameter Tuning for Energy Theft Detection based on Random Forest Classification</p> <p>138 - Automated Spatiotemporal Modeling for Real-Time Data-Driven Actionable Insights</p>	<p>88 - Taking Natural Language Generation and Information Extraction to Domain Specific Tasks</p> <p>285 - A Simple but Powerful Graph Encoder for Temporal Knowledge Graph Completion</p> <p>109 - End-to-End Aspect Extraction and Aspect-based Sentiment Analysis Framework for Low-Resource Languages</p> <p>113 - Attending to Entity Class Attributes for Named Entity Recognition with Few-Shot Learning</p> <p>223 - A Feature-based Approach on Automatic Stopword Detection</p>

## Day 2 – September 8, 2023

<b>Session 13: Artificial Intelligence</b> Sep 8   01:30 PM – 03:30 PM	<b>Session 14: Smart Healthcare</b> Sep 8   01:30 PM – 03:30 PM	<b>Session 15: Internet of Things</b> Sep 8   01:30 PM – 03:30 PM
<p>440 - Automatic Generation of a Portuguese Land Cover Map with Machine Learning</p> <p>389 - Hulk: Graph Neural Networks for Optimizing Regionally Distributed Computing Systems</p> <p>159 - URL Classification with Intrusion Detection System</p> <p>451 - ShapTime: A General XAI Approach for Explainable Time Series Forecasting</p> <p>305 - Machine Learning Control by Symbolic Regression for the Extended Optimal Control Problem of Robot Group</p> <p>53 - Traffic State Prediction of Perturbed and Non-perturbed Traffic Scenarios</p> <p>134 - Causal Analysis of Artificial Intelligence Adoption in Project Management</p> <p>90 - The VesselAI Methodology for AI-Powered Decision Support Systems for the Maritime Industry</p>	<p>133 - A Robust Deep Learning Detection Approach for Retinopathy of Prematurity</p> <p>378 - A Longitudinal Analysis of a Mood Self-tracking App: The Patterns Between Mood and Daily Life Activities</p> <p>257 - Immersion Control for Intelligent Recognition</p> <p>328 - Aiding From Deep Learning Applications in The Classification of Medical Images</p> <p>99 - Impact of Gender and Chest X-Ray View Imbalance in Pneumonia Classification using Deep Learning</p> <p>286 - Supervised Machine Learning Model for Diabetic Students' Glucose Levels Classification System</p> <p>275 - Artifact Identification in X-ray Diffraction Data using the Gradient Boosting Method</p> <p>342 - Connecting COVID-19 with Autoimmunity</p>	<p>211 - Towards Efficient Edge Learning with Limited Storage Resource: Bandit-based Training Data Retrieval in AIoT</p> <p>228 - EduChat: AI-Powered Chatbot with Personalized Engagement for Online Learning</p> <p>94 - Internet of Things Platform as a Service for Building Digital Twins and Blockchain</p> <p>157 - Sustainable Hydroponics: Embedding IoT and Efficient Energy Generation and Distribution Algorithms</p> <p>360 - Developing a Smart Monitoring App and Water Management System for Arid Environments using IoT:</p> <p>312 - Towards Programmable Context Aware Interaction with Smart Home Internet of Things</p> <p>338 - IPAssess: A Protocol-based Fingerprinting Model for Device Identification in the IoT</p>
<b>Session 16: Artificial Intelligence</b> Sep 8   03:45 PM – 05:45 PM	<b>Session 17: Natural Language Processing</b> Sep 8   03:45 PM – 05:45 PM	<b>Session 18: Ambient Intelligence</b> Sep 8   03:45 PM – 05:45 PM
<p>438 - The Role of the User in Meaningful Production with AI</p> <p>83 - A Computational Situationally Self-controlled Brain and Mind Interface under Uncertainty</p> <p>26 - Toward a Human-in-the-Loop Approach to Create Training Datasets for RDF Lexicalisation</p> <p>50 - Wind Turbine Data-driven Intelligent Fault Detection</p> <p>210 - e-Step Control: Solution for Processing and Analysis of IS Users Activities in the Context of Insider Threat Identification based on Markov Chain</p> <p>270 - An Intrinsic Framework of Information Retrieval Evaluation Measures</p> <p>93 - Semantic State Prediction in Robotic Cloth Manipulation</p> <p>395 - The Power of Words: Predicting Stock Market Returns with Fine-Grained Sentiment Analysis and XGBoost</p>	<p>104 - Identifying Research Topics in Human-Computer Interaction for Development: What Value can Natural Language Processing Techniques Add?</p> <p>84 - A Multi-Label Few-Shot Learning with Combinations of Layers</p> <p>245 - Phrase-based Topic Discovery for Spanish Social Media Texts</p> <p>349 - Text Summarization for Call Center Transcripts</p> <p>310 - Topic Segmentation of Semi-structured and Unstructured Conversational Datasets using Language Models</p> <p>124 - FARSum: Feedback-Aware Abstractive Product Review Summarization</p> <p>229 - An Integrated Analysis for Identifying Iconic Gestures in Human-Robot Interactions</p>	<p>75 - UAV-Based Intelligent System for Australian Flood Reconnaissance and Surveillance</p> <p>399 - Requirements Modeling and Automatic Transformations Towards Autonomous Driving Scenarios</p> <p>12 - Q8KNN: A Novel 8-Bit KNN Quantization Method for Edge Computing in Smart Lighting Systems with NodeMCU</p> <p>145 - Automatic Pothole Detection by Different Multispectral Band Combinations</p> <p>141 - Smart Occupancy-driven Control for Ventilation Systems in Buildings with Privacy Concerns</p> <p>260 - Investigating the Suitability of Blockchain Technology for Public Transportation Systems</p> <p>180 - A Convolution Neural Network based VANET Traffic Control System in a Smart City</p> <p>292 - Mobile Application for the Detection of UV Levels in México</p>