

TIME (Amsterdam) CEST / UTC +2	Thu Sept 1	Fri Sept 2
09:00 AM - 09:30 AM	Delegates Login	Delegates Login
09:30 AM - 09:45 AM	Conference Opening	Day #2 Opening
09:45 AM - 11:00 AM	Keynote Talks <ul style="list-style-type: none"> • Edward Ashford Lee (EECS, UC Berkeley) • Andy D. Pimentel (University of Amsterdam) 	Keynote Talks <ul style="list-style-type: none"> • Jochen Cremer (TU Delft) • Paul Lukowicz (DFKI and TU Kaiserslautern)
11:00 AM - 11:30 AM	Virtual Roundtables	Virtual Roundtables
11:30 AM - 12:30 PM	Keynote Talk - Albert Ali Salah (Utrecht University)	Tutorial - Jackie Kazil and Thomas Pike
12:30 PM - 01:30 PM	Break	Break
01:30 PM - 03:15 PM	Session 1: Deep Learning Session 2: Ambient Intelligence Session 3: Affective computing Session 4: Artificial Intelligence	Session 9: Data Science Session 10: Computational Intelligence Session 11: Natural Language Processing Session 12: Artificial Intelligence
03:15 PM - 03:30 PM	Break	Break
03:30 PM - 05:00 PM	Session 5: Deep Learning Session 6: Machine Vision Session 7: Security and Privacy Session 8: Artificial Intelligence	Session 13: Neural Networks Session 14: Smart Healthcare Session 15: Intelligent Transportation Session 16: Robotics
05:00 PM Onwards	Virtual Radio Show	Conference Closing

Session 1: Deep Learning	Session 2: Ambient Intelligence	Session 3: Affective computing	Session 4: Artificial Intelligence
<p>132 - The Self-Discipline Learning Model with Imported Backpropagation Algorithm (Presenter: Zecang Gu)</p> <p>82 - A Deep Reinforcement Learning Algorithm using Graph Transformer Model for Routing Problems (Presenter: Yang Wang)</p> <p>79 - ANNEr: Efficient Anytime Inference in DNNs via Adaptive Intermediate Decision Points (Presenter: Pradeep Nelahonne Shivamurthappa)</p> <p>257 - Optimal Scheduling of Processing Unit using Convolutional Neural Network Architecture (Presenter: Bhavin G Chennur)</p> <p>349 - Leboh: An Android Mobile Application for Waste Classification using TensorFlow Lite (Presenter: Teny Handhayani)</p> <p>162 - Adversarial Attack and Defense based Hydrangea Classification via Deep Learning: Autoencoder and MobileNet (Presenter: Jongwhae Lee)</p> <p>379 - Long Short-term Memory Neural Network for Temperature Prediction in Laser Powder Bed Additive Manufacturing (Presenter: Ashkan Mansouri Yarahmadi)</p> <p>297 - Generating Algorithmic Patterns from Semi-structured Input using a Transition-based Neural Network (Presenter: Richárd Rikk)</p> <p>106 - A Deep Learning Framework to Optimize Underground Wireless Sensors Network Performance in Oil and Gas Reservoirs Environment (Presenter: Abdallah A AIShehri)</p>	<p>2 - The Digital Twin for Monitoring of Cargo Deliveries to the Arctic Territories (Presenter: Mikhail Kuznetsov)</p> <p>153 - Recognition of Similar Habits using Smartwatches and Supervised Learning (Presenter: Maren Hassemer)</p> <p>81 - An Ontology-based Ambient Intelligence Framework for Ageing Workforce (Presenter: Saban Turgut Cilsal)</p> <p>205 - An Interoperable Cloud Platform for the Garment Industry (Presenter: Francisco Morais)</p> <p>66 - The Growing Need for Metaverse Regulation (Presenter: Louis Rosenberg)</p> <p>207 - Ambient Intelligence Security Checks: Identifying Integrity Vulnerabilities in Industry Scripts (Presenter: Suzanna Schmeelk)</p> <p>323 - Mitigating IoT Enterprise Vulnerabilities using Radio Frequency Security Architecture (Presenter: John Irungu)</p> <p>13 - IOT based Crowd Management Tool (Presenter: Sara Alamri)</p>	<p>322 - Mobile Application for After School Pickup Solution: Malaysia Perspectives (Presenter: Check-Yee Law)</p> <p>97 - A Song Can Do That: An Emotion Induction Study for the Development of Intelligent Emotion-aware Systems (Presenter: Roberta Presta)</p> <p>125 - Approximation of Non-Markovian Car Sharing Systems Models by Markovian One (Presenter: Brazenas Mindaugas)</p> <p>316 - A Survey of Smart Classroom: Concept, Technologies and Facial Emotions Recognition Application (Presenter: Amimi Rajae)</p> <p>400 - The Unfortunate Footnote: Using the Affective Reasoner to Generate Fortunes-of-Others Emotions in Story-Morphs (Presenter: Clark Elliott)</p> <p>236 - A Self-learning Musical Tool to Support the Educational Activity (Presenter: Michele Della Ventura)</p> <p>255 - Demystifying xAOSF/AOSR Framework in the Context of Digital Twin and Industry 4.0 (Presenter: Fared Ud Din)</p> <p>348 - CISE: Community Engagement of CEB Cloud Ecosystem in Box (Presenter: Leonardo Vieira)</p> <p>124 - Zero-Shot Visual Emotion Recognition by Exploiting BERT (Presenter: Hyunwook Kang)</p>	<p>52 - An Intelligent Hybrid Cloud-based ANP and AI Model for Development Site Selection (Presenter: Vincent CS Lee)</p> <p>267 - Fatigue-Aware Event-Participant Arrangement in Event-based Social Networks: An Upper Confidence Bound Method (Presenter: Yuan Liang)</p> <p>320 - Computing with Words for Industrial Applications (Presenter: Pakizar Shamoi)</p> <p>193 - Using the Cramer-Gauss method to Solve Systems of Linear Algebraic Equations with Tridiagonal and Five-Diagonal Coefficient Matrices (Presenter: Elena Burova)</p> <p>231 - FI-SHAP: Explanation of Time Series Forecasting and Improvement of Feature Engineering based on Boosting Algorithm (Presenter: Ovanes Petrosian)</p> <p>189 - Natural Language Processing and Functioning Ontological Solver with Visualization in an Integrated System (Presenter: Xenia Naidenova)</p> <p>308 - Plan Deordering with Conditional Effects (Presenter: Sabah Binte Noor)</p> <p>209 - Quality Assurance for Speech Synthesis with ASR (Presenter: René Peinl)</p>

Session 5: Deep Learning	Session 6: Machine Vision	Session 7: Security and Privacy	Session 8: Artificial Intelligence
<p>353 - Hard Samples make Difference: An Improved Training Procedure for Video Action Recognition Tasks (Presenter: Alexander Zarichkovyi)</p> <p>165 - A Dynamic Emotion Recognition System based on Convolutional Feature Extraction and Recurrent Neural Network (Presenter: Andrew Abel)</p> <p>197 - A Deep Learning Approach to UML Class Diagrams Discovery from Textual Specifications of Software Systems (Presenter: Yves Rigou)</p> <p>77 - Deep Learning and Support Vector Machine Algorithms Applied for Fault Detection in Electrical Power Transmission Network (Presenter: Nouha Bouchiba)</p> <p>393 - Gauging Biases in Various Deep Learning AI Models (Presenter: Yulia Kumar)</p> <p>396 - Firearm Detection using Deep Learning (Presenter: Khaled Ahmed)</p> <p>220 - Airplane Detection and Classification based on Mask R-CNN and YOLO with Feature Engineering (Presenter: Hien Tran)</p> <p>229 - Proactive Chatbot Framework based on the PS2CLH Model: An AI-Deep Learning Chatbot Assistant for Students (Presenter: Arlindo Djassi Diogo Almada)</p>	<p>180 - Synthetic Minority with CutMix for Imbalanced Image Classification (Presenter: Chenghua Zeng)</p> <p>346 - Eigen Value Decomposition Utilizing Method for Data Hiding based on Wavelet Multi-resolution Analysis (Presenter: Kohei Arai)</p> <p>244 - Video Analysis of Solid Flame Combustion of the Ni-Al System (Presenter: Oksana Isaeva)</p> <p>274 - Behavioral Model for a Computer Vision System (Presenter: Anton Ivaschenko)</p> <p>60 - Understanding Recommendation Intention and Continuance Intention of Smart Attendance Management Applications (Presenter: Hyeon Jo)</p> <p>148 - Object Tracking with a Fusion of Event-based Camera and Frame-based Camera (Presenter: Haixin Sun)</p> <p>168 - FPGA Implementation of a Custom Floating-Point Library (Presenter: Nelson Campos)</p> <p>299 - Facial Gesture Recognition for Drone Control (Presenter: Rocío Alba-Flores)</p>	<p>370 - Survey on the Convergence of Machine Learning and Blockchain (Presenter: Shengwen Ding)</p> <p>58 - Intrusion Detection System for Industrial Network (Presenter: Hyeon Jo)</p> <p>381 - Detecting Complex Intrusion Attempts using Hybrid Machine Learning Techniques (Presenter: Mustafa Abusalah)</p> <p>338 - Towards Data Science for Cybersecurity: Machine Learning Advances as Glowing Perspective (Presenter: Stefania Loredana Nita)</p> <p>175 - Intrusion Detection Systems using Support Vector Machines on the KDDCUP'99 and NSL-KDD Datasets: A Comprehensive Survey (Presenter: Mikel K. Ngueajio)</p> <p>386 - Boundary-based Fake Face Anomaly Detection in Videos using Recurrent Neural Networks (Presenter: Yashas Hariprasad)</p> <p>391 - Commentary on Biological Assets Cataloging and AI in the Global South (Presenter: Xavier Palmer)</p> <p>310 - Smart Hardware Trojan Detection System (Presenter: Iyad Alkhazendar)</p>	<p>103 - Evaluating Suitability of a Blockchain Platform for a Smart Education Environment (Presenter: Manal Alkhamash)</p> <p>91 - Towards Augmented Reality Interactions Driven by Universal Dynamic Procedural Browser Actions in the 4.0 Contexts (Presenter: Martin Becerra)</p> <p>192 - A Hybrid Predictor for Protein Tertiary Structures (Presenter: Alexandre Barbosa)</p> <p>195 - Predicting Interruptions of Medium Voltage Customers using Fully Connected Networks (Presenter: Gabriel Augusto Rosa)</p> <p>186 - Synthesizing Pokémon Trading Cards using Nvidia StyleGAN2 from Home (Presenter: Kamil Samara)</p> <p>102 - Perception of the Situation: Social Stress and Well-being Indices (Presenter: Maria Pilgun)</p> <p>225 - Lockstepping Conditions of Growth Processes: Some Considerations Towards their Quantitative and Qualitative Nature from Investigations of the Logistic Curve (Presenter: Bernhard Heiden)</p>

Session 9: Data Science	Session 10: Computational Intelligence	Session 11: Natural Language Processing	Session 12: Artificial Intelligence
<p>14 - Financial Stress in China and International Spillover (Presenter: Jinu Kim)</p> <p>109 - A Recommendation System based on Big Data: Separation of Preference and Similarity (Presenter: Hyeon Jo)</p> <p>95 - Weak Supervision can Help Detecting Corruption in Public Procurement (Presenter: Bedri Kamil Onur Tas)</p> <p>112 - Using Segmentation to Improve Machine Learning Performance in Human-in-the-Loop Systems (Presenter: Davide Carneiro)</p> <p>287 - How to Improve the Teaching of Computational Machine Learning Applied to Large-Scale Data Science: The Case of Public Universities in Mexico (Presenter: Heberto Ferreira Medina)</p> <p>65 - Consumer Food Demand Shifts in the COVID-19 Pandemic: An Empirical Study based on Retail Sales Data (Presenter: Yao Yu)</p> <p>372 - Were Consumers Less Price Sensitive to Life Necessities during the COVID-19 Pandemic? An Empirical Study on Dutch Consumers (Presenter: Hao Chen)</p> <p>100 - DataWords: Getting Contrarian with Text, Structured Data and Explanations (Presenter: Stephen Gallant)</p>	<p>98 - Principles of Solving the Symbol Grounding Problem in the Development of the General Artificial Cognitive Agents (Presenter: Vladimir Stepankov)</p> <p>254 - Hybrid Evolutionary Algorithm for Optimal Control Problem (Presenter: Askhat Ibragimovich Diveev)</p> <p>245 - Modular Enumeration Algorithms: Analytical Study and Experimental Verification of Effectiveness (Presenter: Vitaly Groppen)</p> <p>142 - Enabling Maritime Digitalization by Extreme-Scale Analytics, AI and Digital Twins: The Vesselai Architecture (Presenter: Christos Kontzinos)</p> <p>210 - Agent-based Modeling of the Spatio-Temporal Distribution of Sahelian Transhumant Herds (Presenter: Cheick Amed Diloma Gabriel Traore)</p> <p>312 - Combining Edge Recombination Crossover with Ant Colony Optimisation for Improved Routing (Presenter: Darren Chitty)</p> <p>89 - Proxymix: Influence of Spatial Configuration on Human Collaboration through Agent-based Visualization (Presenter: Arnaud Grignard)</p> <p>67 - Proposing Theoretical Frameworks for Including Discreet Cues and Sleep Phases in Computational Intelligence (Presenter: Aishwarya Seth, Wanyi Guo)</p>	<p>140 - NLP-Theatre: Employing Speech Recognition Technologies for Improving Accessibility and Augmenting the Theatrical Experience (Presenter: Maximos Kaliakatsos-Papakostas)</p> <p>311 - Improving Public Services Accessibility through Natural Language Processing: Challenges, Opportunities and Obstacles (Presenter: Ilaria Mariani)</p> <p>129 - Adaptive Keyword Extraction Service for Turkish (Presenter: Yavuz Erzurumlu)</p> <p>126 - Extractive Text Summarization for Turkish: Implementation of TF-IDF and PageRank Algorithms (Presenter: Cigdem Turhan)</p> <p>328 - Knowledge Graph Enrichment of a Semantic Search System for Construction Safety (Presenter: Sophia Ananiadou)</p> <p>371 - Neural Machine Translation for Aymara to Spanish (Presenter: Honorio Apaza)</p> <p>55 - Training Heterogeneous Features in Sequence to Sequence Tasks: Latent Enhanced Multi-filter Seq2Seq Model (Presenter: Yunhao Yang)</p> <p>399 - A Study of Extracting Causal Relationships from Text (Presenter: Pranav Gujarathi)</p>	<p>198 - Implementation of Two-Layered Dynamic Pragmatics (Presenter: Anna Szeteli)</p> <p>355 - Brand Recommendations for Cold-Start Problems using Brand Embeddings (Presenter: David Azcona)</p> <p>306 - Bag-of-Words Similarity in eXplainable AI (Presenter: Maurizio Mongelli)</p> <p>177 - Real-Time Student Attendance System using Face Recognition (Presenter: Ahmad Aljaafreh)</p> <p>130 - Blending Case-based Reasoning with Ontologies for Adapting Diet Menus and Physical Activities (Presenter: Orlando Belo)</p> <p>28 - PID Parameter Tables for Time-Delayed Systems, Found with Learning Algorithms According to Minimum IAE, ITAE and ISE Criteria (Presenter: Roland Büchi)</p> <p>315 - Job Recommendation based on Extracted Skill Embeddings (Presenter: Kemal Can Kara)</p> <p>194 - Similarity-based Résumé Matching via Triplet Loss with BERT Models (Presenter: Kemal Can Kara)</p> <p>214 - Quantum Displacements Dictated by Machine Learning Principles: Towards Optimization of Quantum Paths (Presenter: Huber Nieto-Chaupis)</p>

Session 13: Neural Networks	Session 14: Smart Healthcare	Session 15: Intelligent Transportation	Session 16: Robotics
<p>133 - Distributed H_{∞} Filtering for Discrete-Time Stochastic System via Interval Matrix Method (Presenter: Guici Chen)</p> <p>187 - RAVSSNet: Recurrent Audio Visual Speech Separation (Presenter: Chandan Shankar M)</p> <p>170 - Measuring Factors Affecting Non-performing Assets using Neuro Fuzzy Model (Presenter: Taraknath Paul)</p> <p>72 - Design and Develop Hardware Aware DNN for Faster Inference (Presenter: Pradeep Nelahonne Shivamurthappa)</p> <p>73 - Intelligent Bixby Recommender Systems (Presenter: Manish Manohar)</p> <p>145 - Methodology for Training Artificial Neural Networks for Islanding Detection of Photovoltaic Distributed Generators (Presenter: Luiza Buscariolli)</p> <p>285 - Neural Networks Training on Graphics Processing Unit (GPU) using Dynamic Parallelism (DP) (Presenter: Yun Tian)</p>	<p>84 - Building a Fuzzy Expert System for Assessing the Severity of Pneumonia (Presenter: Burnashev Rustam)</p> <p>185 - How do Thermography Colors Influence Breast Cancer Diagnosis? A Hybrid Model of Convolutional Networks with a Weighted Average Evolutionary Algorithm (Presenter: Alberto Nogales Moyano)</p> <p>203 - Tantrum-Track: Context and Ontological Representation Model for Recommendation and Tracking Services for People with Autism (Presenter: Hamid Mcheick)</p> <p>188 - The Use of Voice Recognition in the Interface of Physical Rehabilitation Applications (Presenter: Iam Contreras-Alcázar)</p> <p>383 - Vision Transformers for Medical Images Classifications (Presenter: Hong Cheng)</p> <p>283 - Human Iris Image Analysis for the Classification of Fuchs' Crypts and Peripupillary Rings (Presenter: Shiao-fen Fang)</p> <p>286 - Knowledge Translator for Clinical Decision Support in Treating Hearing Disorders (Presenter: Katarzyna Tarnowska)</p>	<p>115 - Autonomous Electric Vehicle Battery Disassembly based on NeuroSymbolic Computing (Presenter: Hengwei Zhang)</p> <p>96 - Applicability of Systems Engineering for Intelligent Transportation Systems: A Roadmap for Model-based Approach to Manage Future Mobility Needs (Presenter: Harsha Deshpande)</p> <p>113 - Contactless Camera-based Approach for Driver Respiratory Rate Estimation in Vehicle Cabin (Presenter: Alexey Kashevnik)</p> <p>149 - Towards End-to-End Chase in Urban Autonomous Driving using Reinforcement Learning (Presenter: Maciej Wielgosz)</p> <p>35 - Model and Evaluation of a Centralized Non-recurrent Queue Management System for Road Events (Presenter: Hao Yang)</p> <p>318 - Fingerprinting ECUs to Implement Vehicular Security for Passenger Safety using Machine Learning Techniques (Presenter: Samuel Bellaire)</p> <p>86 - Evaluation on Integrating Relocation and User Flexibility in Large-scale One-way Electric Carsharing Systems (Presenter: Xiaoqiang Cai)</p>	<p>63 - A New Entrapment based Invader Capture Strategy for Multi-Robot Surveillance Systems (Presenter: SeungHwan Lee)</p> <p>272 - Improving Meta-imitation Learning with Focused Task Embedding (Presenter: Chung-Ta King)</p> <p>50 - Tactile Sensing of the Rigid-Soft Electromagnetic Feet of the iCrawl Robot for Pipe Size Classification (Presenter: Muhammad Bilal Khan)</p> <p>375 - Detection and Collection of Waste using a Partially Submerged Aquatic Robot (Presenter: Malek Ayesh)</p> <p>403 - Hand Gesture and Human-Drone Interaction (Presenter: Neil Buckley)</p> <p>117 - Design and Validation of an Exoskeleton for Hand Rehabilitation in Adult Patients with Rheumatoid Arthritis (Presenter: Roberto Moya)</p> <p>216 - Entropy of Shannon from Geometrical Modeling of Covid-19 Infections Data: The Cases of USA and India (Presenter: Huber Nieto-Chaupis)</p>