

Detailed Program of the Joint 26th EAAAI / EANN 2025 & 21th AIAI 2025 Conferences

**Cyprus University of Technology
Limassol, Cyprus
Tassos Papadopoulos building**

**GPS coordinates of the Venue:
34.67549, 33.04517**

Thursday 26/6/2025

10:00 - 18:00 Registration

10:30-11:00 Welcome Session

[Hybrid Session, Room 1 – Welcome Session](#)

Addressed by: Prof. Lazaros Iliadis, Democritus University of Thrace, Greece

Prof. Ilias Maglogiannis, University of Piraeus, Greece

Prof. Eunika Mercier-Laurent, University of Reims Champagne-Ardenne, France

11:00 - 12:00

Session 1, Keynote 1: "Engineering Information Systems and Smart Applications with LLMs"

[Hybrid Session, Room 1 – Keynote 1](#)

Chair: Prof. Andreas Andreou

Keynote Speaker: Professor Massimo Mecella

School of Information Engineering, Computer Science and Statistics of Sapienza

Universita di Roma, in the Department of Computer, Control and Management Sciences

& Engineering ANTONIO RUBERTI (DIAG, formerly DIS – Department of Computer and Systems Sciences)

12:30-13:45

Session 2, AIAI: NLX (NATURAL LANGUAGE / EXPLAINABILITY)

[Hybrid Session, Room 1](#)

Chair: Dr. Ladislav Lenc

A Web-Based Information System For Medical Forensics Incorporating Generative AI in Reports Compilation

Koulouris Dionysios, Kalathas Dimitrios, Menychtas Andreas, Pasias Apostolos,

Athanasίου Vasileios, Tsanakas Panayiotis, Maglogiannis Ilias

Explainable Surface-Level Malware Analysis through Scalable and Accurate Feature Selection

Ito Lulu, Sawada Naoya, Maeda Katsuyuki, Shin Kilho

Merged LIME and SHAP eXplanation (MLSX): BERT case in NER Task

Hedhili Aroua, Ben Tiba Yasmine

Unified Mental Health Disorder Detection on Social Media

Dodun-Des-Perrieres Dan, Raschip Madalina

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

12:30-13:45

Session 3, EAAAI (EANN): DLC 1 (DEEP LEARNING / CLASSIFICATION)

[Hybrid Session, Room 2](#)

Chair: Assoc professor Serafín Alonso

A Real-Time Human Action Recognition Model for Assisted Living

Wang Yixuan, Muntean Cristina, Pathak Pramod, Stynes Paul

AI-based automatic counting and classification of aedes mosquito eggs in field traps

Grau-Haro Jordi, Naranjo-Alcazar Javier, Lopez-Ballester Jesus, Almenar David, Zuccarello Pedro

An Empirical Review of Uncertainty Estimation for Quality Control in CAD Model Segmentation

Vidanes Gerico, Toal David, Keane Andy, Zhang Xu, Nunez Marco, Gregory Jon

Implementing Hybrid Tsetlin Machine and Q-Learning for Solving the Job Shop Scheduling

Maharjan Reshma, Per-Arne Andersen, Lei Jiao

12:30-13:45

Session 4, AIAI: B5G-PINE 1 (B5G – Putting Intelligence to the Network Edge)

[Hybrid Session, Room 3](#)

Chair: Dr. Ioannis Chochliouros

Automated Logistics in the B5G/6G Era

Chochliouros Ioannis, Spiliopoulou Anastasia, Verrios Panayiotis, Doukoglou Tilemachos, Lessi Christina, Cordeiro Luis, Fernandes João, Lazaridis Pavlos

Societal Aspects and Key Values in 6G Networks

Kostopoulos Alexandros, Chochliouros Ioannis, Rantopoulos Michalis, Ramantas Kostas, Verikoukis Christos

Sustainable Development in the Era of 6G

Belesioti Maria, Trevlakis Stylianos, Chochliouros Ioannis , Lessi Christina

Water Saving for Modern Agriculture in the B5G/6G Framework

Chochliouros Ioannis, Spiliopoulou Anastasia, Díaz Zayas Almudena, Losada Rodriguez Juan Manuel, Cordeiro Luis, Fernandes João, Lazaridis Pavlos

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

12:30-13:45

Session 5, AIAI: BB 1 (BIOINFORMATICS / BIOMEDICAL)

[Remote Session, Room 4](#)

Chair: Assoc professor Noémi Gaskó

An Integrated System for the Texture Analysis of Prostate Ultrasound Images Based on Different Pre-processing Schemes

Yu Haohan, Hou Jiale, Huang Xiwei, Loizou Christos

DADA-MED: Data-Augmented Dual Attention Model for Enhanced Medication Recommendations

Saxena Krati, Shibata Tomohiro

Enhancing Sound-Based Sleep Quality Assessment by Multi-modal Knowledge Distillation

LU HAoyu, Takafumi Kato, Fukui Ken-ichi

Optimized Machine Learning Models and Stacking Hybrid Approach for Chronic Kidney Disease Prediction

Sharifuzzaman Md, Fahad Nafiz, Rabbi Riadul Islam, Sadib Ridwan Jamal, Haque Tusher Ekramul, Tze Hui Liew, Ullah Miah Md Saef, Naimul Islam Mohammad, Hossen Md. Jakir

12:30-13:45

Session 6, AIAI: MV 1 (MACHINE VISION)

[Remote Session, Room 5](#)

Chair: Dr. Konstantinos Moutselos

Detection of Video Forgery based on Depth-Wise Convolution Neural Network

Khazaal Mohammed, Elleuch Mohamed, Afair Anmar, Kherallah Monji, Charfi Faiza

Efficient Population Estimation Using Patch-Based Deep Learning

Nasralli Issa, Masmoudi Imene, Drira Hassen, Hadj Taieb Mohamed Ali

GaussBEV: Multi-Head Gaussian Feature Grouping for Multi-View 3D Object Detection

Zhang Junjie, Zhou Sanping, Huang Yuhao, Dong Jinpeng, Fu Jingwen, Zheng Nanning

SpeakSmart: A Comprehensive Oratory Enhancement Tool

Shikhar Malay, Kuchimanchi Sai Nikhila, Kar Maitreyi, Muhammad Kunhi Liwa Al Haq, R Bharathi

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12:30-14:00

Session 7, AIAI: LLMO (LARGE LANGUAGE MODELS / OPTIMIZATION)

[Remote Session, Room 6](#)

Chair: Asst professor Ioannis Karydis

A New Genetic Algorithm with Problem-Specific Crossover and Mutation operators for Multivariate Microaggregation Problem

Szász Márton-Alpár, Gaskó Noémi, Szenkovits Annamária

Improved Nested Markov Chain Hyper-heuristic framework. A clustering application.

Bándi Nándor, Gaskó Noémi

Large Language Model-based Federated Zero-Shot Learning for Intrusion Detection in Smart Grids

Dasgupta Rupshali, Mitra Pabitra

LLM-Based Automated Hallucination Detection in Multilingual Customer Service RAG Applications

Patel Nikilkumar, Mouratidis Haralambos, Ng Kai Zhi Kenneth

Optimizing Cache Utilization in CPU Compilation Through Compiler Autotuning

Mihaescu Vlad, Popescu Stefan, Mihaescu Cristian

14:45-16:00

Session 8, AIAI: BB 2 (BIOINFORMATICS / BIOMEDICAL)

[Hybrid Session, Room 1](#)

Chair: Asst professor Perz Rafał

Automated Prostate Segmentation in Ultrasound Images Based on Different Pre-processing Schemes

Hou Jiale, Yu Haohan, Loizou Christos, Huang Xiwei, Liapi Georgia , Roussakis Yiannis

Balancing Accuracy and Energy: the Impact of Window Size on Sensor-based Human Activity Recognition

Contoli Chiara, Peretti Susanna, Lattanzi Emanuele

Convolutional Autoencoder-based Dimensionality Reduction for EEG Microstate Analysis

Thukral Sanat , Raufi Bujar, Bozic Bojan

Diaphragmatic Motion Analysis in Neonates using Ultrasound Simulated Videos

Loizou Christos, Pattichis Constantinos, Koutras Giannis, Pattichis Marios, Kyriacou Efthymoulos, Sarafides Kosmas

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14:45-16:00

Session 9, AIAI: MHDW 1 (Mining Humanistic Data Workshop)

[Hybrid Session, Room 2](#)

Chair: Dr. Eirini Schiza

An Explainable AI System for Clinical Decision Support in Schwannomatosis

*Pittara Melpo, Kyriacou Anastasia, Koumi Adamos, Matsangidou Maria, Schiza Eirini,
Pattichis Constantinos S., Kakas Antonis*

Analyzing Public Discourse and Sentiment in Climate Change Discussions Using Transformer-Based Models

Roufas Nikolaos, Mohasseb Alaa, Karamitsos Ioannis, Kanavos Andreas

Enhancing Facial Emotion Recognition using deep learning techniques in challenging conditions

BOITEL Enguerrand, MOHASSEB Alaa, HAIG Ella

14:45-16:00

Session 10, AIAI: MLAS 1 (MACHINE LEARNING / AGENT SYSTEMS)

[Hybrid Session, Room 3](#)

Chair: Prof. Elias Pimenidis

Fingerprint Minutiae-Based Cryptographic Key Generation: Towards Secure and Usable Authentication

Tamala Franck, van der Haar Dustin

Historical Map Understanding Using End-to-end Methods

Lenc Ladislav, Martínek Jiří, Král Pavel

Large-to-Small: Energy Consumption Reduction of Training the Fully Connected Layers

Vazinram Farzad

Off-Policy Inspired Imitation Learning for Generation of Adversarial Malware

Mohammed Abdul Sami, Okafor Emmanuel

14:45-16:00

Session 11, AIAI: LLM 1 (LARGE LANGUAGE MODELS)

[Remote Session, Room 4](#)

Chair: Dr. Ioannis Karampinis

Enhancing Answer Reliability Through Inter-Model Consensus of Large Language Models

Amiri-Margavi Alireza, Jebellat Iman, Jebellat Ehsan, Mousavi Davoudi Seyed Pouyan

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Leveraging Large Language Models for Emotion Recognition: Case of Employee Satisfaction Surveys

mammar kouadri wissam

Summarizing Online Discussions with Prototype Relation Networks Using Large Language Models

Power William, Gupta Shelly, Obradovic Zoran

Toward Safer and Trustworthy Chatbots in E-Commerce: An LLM-as-a-Judge Approach for Ethical Evaluation

Janusko Tamás, Bochnia Ricardo, Hempel Gunnar, Krauß Anna-Magdalena, Richter Daniel, Harnisch Moritz, Tomschke Steffen, Anke Jürgen, Thiele Maik

14:45-16:00

Session 12, EAAAI (EANN): MLTS 1 (MACHINE LEARNING / TIME SERIES)

[Remote Session, Room 5](#)

Chair: Asst professor Eleni Vrochidou

AI-Based Water Quality Monitoring Module for the Segura Hydrographic Confederation Platform

Azpiroz Izar, Velásquez David, da Costa Paulo Breno, Landa Del Barrio Iker, Odriozola Juan, Maiza Mikel

An Integrated Approach for Short-Term Forecasting of Highway Vehicle Flows Based on Singular Spectrum Analysis and Artificial Neural Networks

Nikiforos Botzoris, Anastasios Panagiotis Psathas, Antonios Papaleonidas, Lazaros Iliadis

Automatic long-term forecasting of mortality rates with generalized regression neural networks

Apicella Giovanna, La Rocca Michele, Perna Cira, Sibillo Marilena

Forecasting vehicle crossing volumes by using Nonlinear Autoregressive Neural Networks sets

Skopelitis Ioannis, Papaleonidas Antonios, Psathas Anastasios Panagiotis, Iliadis Lazaros, Botzoris George

14:45-16:00

Session 13, AIAI: RS (RECOMMENDATION SYSTEMS)

[Remote Session, Room 6](#)

Chair: Dr. Georgios Drakopoulos

A Content-Aware Collaborative Filtering Framework for Video Recommender Systems

Do Thi Thanh Ha, Le Nguyen Hoai Nam

ColBic : a New Biclustering-based Collaborative Filtering

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Achouri Eya, Ayadi Wassim

Enhancing Explainability in AI-Powered Data Retrieval Systems

Antony Seabra, Claudio Cavalcante, Sergio Lifschitz

Improving the Diversity and Fairness in Job Recommendations using the Stable Matching Algorithm

Unecha Jatin, Moh Melody, Moh Teng-Sheng

16:30-18:00

Session 14, AIAI: DL 1 (DEEP LEARNING)

[Hybrid Session, Room 1](#)

Chair: Asst professor Chiara Contoli

AI-Driven Artistry - Transforming Guitar Design with Generative Models

Popek Łukasz, Bilski Piotr, Zakrzewski Filip, Perz Rafał

Collaborative Split Federated Learning with Parallel Training and Aggregation

Papageorgiou Yiannis, Thomas Yannis, Filippakopoulos Alexios, Khalili Ramin, Koutsopoulos Iordanis

Disaster Data Driven Forecasting for Preemptive Crisis Response

Lambe Zafeer, Alshehri Jumanah, Obradovic Zoran

Incorporating Medical Assistants in eHealth Environments Using an Agentic RAG Approach

Kalathas Dimitrios, Menychtas Andreas, Maglogiannis Ilias, Tsanakas Panayiotis

Machine learning-powered customizable urban land use classification for high-resolution satellite imagery

Evangelos Bagkis, Theodosios Kassandra, Lamprini Adamopoulou, Kostas Karatzas

16:30-18:00

Session 15, EAAAI (EANN): MLPR 1 (MACHINE LEARNING / PATTERN RECOGNITION)

[Hybrid Session, Room 2](#)

Chair: Prof. Thomas Schuster

A Norm-Chatbot: Local LLM-Vision with Vision-based RAG for Complex Production Documents and Task-Specific Responses

Michael Sahl Lystbæk, Ulrik Sahl Lystbæk

Artificial Intelligence versus Food Wastage in Bakeries

Elias Pimenidis, Yahia Abdelrahman, Anastasios Panagiotis Psathas

ESN architectures for industrial process modelling to develop digital twins

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Herbón Raúl, Alonso Serafín, Prada Miguel A., Díaz Ignacio, Domínguez Manuel, Fuertes Juan J.

Leveraging Computational Geometry for Data Augmentation in Medical Flow Fields

Classification

Margheritti Riccardo, Schillaci Andrea, Pipolo Carlotta, Quadrio Maurizio, Boracchi Giacomo

Quench detection and localization via interpretable machine learning

Biagiotti Alessandro, Malchiodi Dario, Mariotto Samuele, Rossi Lucio

16:30-18:00

Session 16, AIAI: B5G-PINE 2 (B5G – Putting Intelligence to the Network Edge)

[Hybrid Session, Room 3](#)

Chair: Dr. Ioannis Chochliouros

B5G network implementation for automated logistics

Lessi Christina, Chochliouros Ioannis, Verrios Panayiotis

6G-BRICKS - An Insight into the Key Value Indicators (KVIs) developed

Rantopoulos Michalis, Chochliouros Ioannis, Chasiotis Ioannis, Konstantopoulos Eleftherios, Verikoukis Christos, Spiliopoulou Anastasia, Ramantas Kostas, Zafeiropoulos Nikolaos

TRACE: a Reference Architecture for Intelligent Logistics Operations in B5G Networks

Papachristopoulou Konstantina, Anagnostopoulos Themistoklis , Fragkos Konstantinos , Mesogiti Ioanna, Limperopoulos George , Theodoropoulou Eleni , Kolomvatsos Kostas

Developing Adaptive AI Cyber Range Training Modules for Critical Infrastructure Sectors

Gizelis Christos, Nikoloudakis Nikolaos, Papanikas Dimitrios, Merkouris Dimitris, Panagiotidis Petros, Mpempis Panagiotis

AI-based Foreign Language Learning Tools Effectiveness

Gkountara Despoina, Prasad Ramjee, Poulkov Vladimir, Manolova Agata, Tsankova Yana, Yaneva Todora, Chochliouros Ioannis, Lazaridis Pavlos

16:30-18:00

Session 17, AIAI: BB 3 (BIOINFORMATICS / BIOMEDICAL)

[Remote Session, Room 4](#)

Chair: Assoc professor Andreas Kanavos

Exploring FIWARE-based Data Model for Data Sharing Platforms

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Boutziona Ioanna, Tsolakis Nikos, Maga-Nteve Christoniki, Catalina Mikel, Hernandez Mikel, Epelde Gorka, Bamidis Panagiotis, Konstantinidis Evdokimos, Meditskos Georgios, Vrochidis Stefanos

Functional Connectivity Disruptions in Alzheimer's Disease: A Resting-State fMRI Classification Study

Munteanu Bianca-Stefania, Chira Camelia

On the Interplay of Epigenetics, ADHD, Decision Making and Digital Media Usage: an Adaptive Dynamical System Modelling Approach

Nastasija Loren Hinkel, Treur Jan

Optimizing Life Insurance Risk Prediction: A Comparative Analysis of Traditional, Ensemble, and Deep Learning Models

Fourkiotis Konstantinos Panagiotis, Tsadiras Athanasios

Robust Zero-Watermarking of Medical Images based ResNet-50

Beggari Ahmed Said, Wali Ali, Khaldi Amine, Aiadi Oussama

16:30-18:00

Session 18, EAAAI (EANN): DLC 2 (DEEP LEARNING / CLASSIFICATION)

[Remote Session, Room 5](#)

Chair: Assoc professor Andreas Menychtas

Detecting Anomalous Self-Citations using Citation Network Analysis and LLMs

Farhaan Ebadulla, Gaurav B V, H Manoj, Arti Arya, Nazmin Begum, Kruthik K

Exploring Various Sequential Learning Methods for Deformation History Modeling

YATKIN Muhammed, Korgesaar Mihkel, Romanoff Jani, Stuckner Joshua, İşlak Ümit, Kurban Hasan

FusionNet:Leveraging Dual Speech Separation Networks for Enhanced Multi-Speaker Isolation

Ravindran Sumedh, Mallesh Shreyas, Bhatagunaki Raghavendra, Chitnis Srikrishna, Sharath Shylaja

MRI-Based Brain Tumor Classification Using Ensemble CNN, VGG16, and ResNet50 Model

Chikhale Anshuli, Kakani Divyam

Utilizing Multiple Data Sources to Improve Prediction of Severe Weather Events through Spatio-Temporal Analysis

Otudi Hussain, Gupta Shelly, Abdel Hai Ameen, Aljurbua Rafaa, Alharbi Abdulrahman, Obradovic Zoran

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

16:30-18:00

Session 19, AIAI: DL 2 (DEEP LEARNING)

[Remote Session, Room 6](#)

Chair: Dr. Athanasios Kallipolitis

Advanced IoT-AI Integration for Predictive Management of Positive Temperature Cold Storage Systems

Wendpouité A. E. Sawadogo, Rodrique Kafando, Nébon Bado, Thierry S. M. Ky, Tegawendé F. Bissyande

An Integrated Convolutional & Transformer Architecture for Word-Based Handwriter Identification

Majithia Aditya, Pedersen Arthur Paul, Grossberg Michael

Assessing Deep Learning Challenges in Lightweight AES Cryptanalysis

Said Omar, Ismail Nada, Yousef Sama, Gamal Noha

Machine Learning modeling of the impact of masonry infills' in-plan irregularities' on the R/C buildings' damage response

Karampinis Ioannis, Morfidis Konstantinos, Kostinakis Konstantinos, Iliadis Lazaros, Psathas Anastasios Panagiotis

Towards Cross-Domain Anomaly Detection in Cyber-Physical Systems: A Hybrid Approach

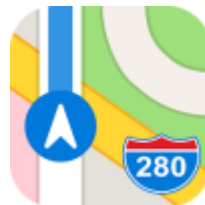
Yaa Takyiwaa Acquah, Kaushik Roy

19:30-21:30

Welcome Reception

The welcome reception will be a networking event that includes a variety of finger food / food platters / drinks which will be served to the participants in an informal way.

It will take place in the gardens of the Municipal University Library



GPS coordinates of the Municipal University Library are 34.6803, 33.0493

The event will start at 19:30 and it will have an estimated duration of 2 hours.

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Welcome reception is complimentary and free for all registered conference participants.

Please be sure to have your name badge/ QR code with you.

Tickets for accompanying and/or not registered persons can be purchased from the conference registration desk. Tickets for welcome reception costs 15 euros.

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Friday 27/6/2025

9:45 - 15:00 Registration

10:00-11:00

Session 20, Keynote 2: "Collectionless AI and Nature- Inspired Learning"

[Hybrid Session, Room 1 – Keynote 2](#)

Chair: Asst professor Efthymou Kyriacou

Keynote Speaker: Professor Marco Gori

Siena Artificial Intelligence Lab, University of Siena, Italy

11:30-12:45

Session 21, AIAI: MPR 1 (MODELING / PATTERN RECOGNITION)

[Hybrid Session, Room 1](#)

Chair: Asst professor George Manias

Global Clustering of COVID-19 Impact: A Data-Driven Analysis Using K-Means

Kaščelan Ljiljana, Đurković Dženana, Đurić Stevan, Vuković Sunčica

Irregular Immigration and Smuggling at the Serbian-Romanian Border: A Wavelet Approach

Cumpanasu Iliuta

On the Application of Mana Curve, Heuristic Evaluation and Monte Carlo Simulation in Bot Programming

Tran Cao Thai, Dang Hoang Anh Khoi, Pham Minh Hieu, Logofatu Doina

Tight bounds for an accelerated k-means++ algorithm

Rodríguez Guillem, Blesa Maria J., Blum Christian

11:30-12:45

Session 22, AIAI: DL 3 (DEEP LEARNING)

[Hybrid Session, Room 2](#)

Chair: Prof. Christos Loizou

Declarative, generic definition and effective implementation of transfer learning algorithms

Diab Tayeb, Graiet Mohamed, Sudholt Mario

Enhancing Agricultural Disease Management: An Application of Deep Learning for Fusarium Head Blight Detection in Wheat Crops

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Kamukwamba Munza, van der Haar Dustin, Vadapalli Hima

MatCHelper: An Automated Tool for Guiding in the Acceleration and Compression of Neural Networks

Población-Criado David, Quinones Eduardo, Garcia-Gasulla Dario

Shoreline and Sea Level Changes Detection from Satellite Images Using Deep Learning

Giannaropoulos Dionysis, Kolomvatsos Kostas

11:30-12:45

Session 23, AIAI: B5G-PINE 3 (B5G – Putting Intelligence to the Network Edge)

[Hybrid Session, Room 3](#)

Chair: Dr. Christos-Antonios Gizelis

Towards a Data Monetization Maturity Model

Bub Udo, Gizelis Christos, Schneider Rob

Transforming Data Management in Telecommunications: the Case Study of OTE Group's Integration with DATAMITE project

Marinakis Achilleas, Petrova Sotiria, Deligeorgi Efstathia, Gizelis Christos, Kefalogiannis Michalis, Moulos Vrettos, Siopidis Vasileios, Tepelidis Nikolaos, Votis Konstantinos, Tzovaras Dimitrios

DeployAI: AI-on-Demand Platform and Marketplace for Industrial Applications within Europe

Troumpoukis Antonis, Marinakis Achilleas, Gizelis Christos A. , Sofikitis Konstantinos, Mouzakitidis Spiros, Pountridis Theodosios, Tzortzis Alexandros-Menelaos, Karakolis Evangelos, Pelekis Sotiris, Albughdadi Mohanad, Baousis Vasileios, Köckemann Uwe, Papastergiou Fotis, Tzoumas Alexandros, Weiß Martin

Developing a Knowledge-Driven Adaptive Generative AI Chatbot for the Telecom Industry

Nestorakis Konstantinos, Marinakis Achilleas, Kefalogiannis Michalis, Panagiotidou Maria, Galanis Vasilis, Gizelis Christos, Tzoumas Alexandros

11:30-12:45

Session 24, EAAAI (EANN): DLC 3 (DEEP LEARNING / CLASSIFICATION)

[Remote Session, Room 4](#)

Chair: Assoc professor Phivos Mylonas

Easy, Fast and Reliable Modulo and Linear Congruential Generator Approximation with Artificial Neural Networks

Boanca Sara

ESN with delayed inputs to model industrial processes

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Rodríguez-Ossorio José Ramón, Morán Antonio, Fuertes Juan J., Gallicchio Claudio, Roca Lidia, Domínguez Manuel

Hybrid Deep Learning and Gradient Boosting for Superior Sentiment Analysis: A Comparative Study

Hossain Saddam, Doina Logofătu

Maximum Interstory Drift Ratio (MIDR) equations for R/C buildings using machine learning procedures

Karampinis Ioannis, Morfidis Konstantinos, Kostinakis Konstantinos, Iliadis Lazaros

11:30-12:45

Session 25, AIAI: AI4GD 1 (AI Applications for Achieving the Green Deal Targets Workshop)

[Remote Session, Room 5](#)

Chair: Assoc professor Stilianos Krinidis, Dr. Asimina Dimara

Beyond 3D: A Multi-Dimensional Approach to BIM for Smart and Sustainable Buildings

Stogia Myrto, Dimara Asimina, Papaioannou Christoforos, Anagnostopoulos Christos-Nikolaos, Krinidis Stelios

Data Modelling for multi-level Energy Systems: A Practical Framework from Buildings to cities

Tzitzios Ioannis , Dimara Asimina, Papaioannou Christoforos, Papaioannou Alexios, Anagnostopoulos Christos-Nikolaos , Krinidis Stelios

Interactive 2D Design: A user friendly Grid-Based Approach for Smart Digital Twins

Papaioannou Christoforos, Dimara Asimina, Tzitzios Ioannis, Stogia Myrto, Anagnostopoulos Christos-Nikolaos, Krinidis Stelios

The Role of IoT and 3D Modeling in Shaping Industry 5.0

Stogia Myrto, Dimara Asimina, Papaioannou Alexios, Anagnostopoulos Christos-Nikolaos , Kotis Konstantinos, Krinidis Stelios

11:30-12:45

Session 26, AIAI: MLAS 2 (MACHINE LEARNING / AGENT SYSTEMS)

[Remote Session, Room 6](#)

Chair: Assoc professor Algarni Abdulmohsen

Clustering by Limit-Cycles in Hopfield Neural Network

Das Jhelum, Ladwani Vandana, Ramasubramanian V

Enhancing Ransomware Detection Using Storage Access Pattern

Raizza Amjad, Algarni Abdulmohsen, Alrayzah Asmaa

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Predicting Vessel Arrival Time Using Machine Learning for Enhanced Port Efficiency and Optimal Berth Allocation

Anfal Albloushi, Ioannis Karamitsos, Andreas Kanavos, Sanjay Modak

So-Connect: recommending layer-wise connections in social networks using SNN-DBSCAN

Bhattacharjee Panthadeep, Jana Angshuman, Vidyapu Sandeep

13:45-15:00

Session 27, AIAI: MLAS 3 (MACHINE LEARNING / AGENT SYSTEMS)

[Hybrid Session, Room 1](#)

Chair: Assoc professor Dario Malchiodi

A Multi-Agent System Approach for Dynamic and Adaptive Daily Profile Detection in Building Data

El Kouch Youssef, Combettes Stéphanie, Lartigue Berangere

Malware Detection through API Call Frequency: Assessing Early-Stage versus Full-Time Classification Potential

Ali DAD NESHAAT, Lago Fernandez Luis, Rodriguez Francisco

Metaheuristics-based Long Short-Term Memory Optimization for Emotion Classification

Jideani Paul, Gerber AURORA

Time Series analysis using Memory Enhanced Liquid Neural Network

Abhijeet Kumar, Dr. M. Srinivas, and Prof. R B V Subramanyam

13:45-15:00

Session 28, EAAAI (EANN): MLTS 2 (MACHINE LEARNING / TIME SERIES)

[Hybrid Session, Room 2](#)

Chair: Prof. Doina Logofatu

Assessing Mobility Policies by Traffic Simulation and Change Detection

Bagni Felipe, Peretti Edoardo, Macciò Danilo, Cervellera Cristiano, Boracchi Giacomo

Contextualized segmentation of milling processes using discrete rule-based pattern recognition

Klehr Lukas, Engelmann Bastian, Schleif Frank-Michael, Regulin Daniel

Estimation of river Ebro streamflow using Fuzzy Inference Systems & FCM

Psathas Anastasios Panagiotis, Petkopoulos Stamatios, Papaleonidas Antonios, Spiliotis Mike, Iliadis Lazaros

Retrospective clustering of COVID-19 mortality time series using dynamic time warping

Razi Murat, Grana Manuel

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13:45-15:00

Session 29, AIAI: B5G-PINE 4 (B5G – Putting Intelligence to the Network Edge)

[Hybrid Session, Room 3](#)

Chair: Dr. Ioannis Chochliouros, Dr. Alexandros Kostopoulos

An IoT Framework for AI-based Surveillance Applications

*Kostopoulos Alexandros, Chochliouros Ioannis, Lyberopoulos George, Panaretou Ioannis,
Patsias Alexandros, Zaroliagis Christos, Spyros Kontogiannis*

Optimizing Task Orchestration across the Cloud Continuum

Karathanasis Konstantinos, Kontogiannis Spyros, Zaroliagis Christos

Architectural Aspects of Unified Terrestrial and Non-Terrestrial Mobile Networks

*Tomaszewski Lechostaw, Mosahebfard Mohammadreza, Ruiz-de-Azua Joan A.,
Antonopoulos Angelos, Duque Alexis, Mesodiakaki Agapi, Ntontin Konstantinos, Aguilar
Sergio, Pappas Nikolaos, Alshaer Hamada*

Developing a 6G Data and ML Operations Automation via an End-to-End AI framework - The 6G-DALI Context

*Chochliouros Ioannis, Ramantas Kostas, Theodorou Vasileios, Pinto Christian, Kennouche
Takai Eddine, Ksentini Adlen, Minucci Franco, Amaxiliatis Dimitrios, Bernini Giacomo,
Briguglio Luigi, Hai Rihan , Spiliopoulou Anastasia, Verikoukis Christos*

13:45-15:00

Session 30, AIAI: MLAS 4 (MACHINE LEARNING / AGENT SYSTEMS)

[Remote Session, Room 4](#)

Chair: Assoc professor Rashmi Gupta

Agile MLOps: Bridging the Gap Between Agility and Machine Learning Operations

*Vouta Papageorgiou Aikaterini, Symeonidis Georgios, Nerantzis Evangelos, Papakostas
George*

Handling Anonymized Non-Numerical Features in Data using Transformations for Regression Models

*Mathias Selvine George, Akmal Muhammad Uzair, Asif Saara, Knollmeyer Simon, Koval
Leonid, Grossmann Daniel*

PixelPath: Predicting UAV Trajectories in GPS-Restricted Environments Using Image Feature Extraction and Machine Learning

Petridis Christos, Shrivastava Abhudaya, Vacic Marijana, Obradovic Zoran

Semi-Supervised Learning for Early Certification Prediction in MOOCs

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Raftopoulos George, Davrazos Gregory, Panagiotakopoulos Theodor, kotsiantis Sotiris, Kameas Achilles

13:45-15:00

Session 31, AIAI: MHDW 2 (Mining Humanistic Data Workshop)

[Remote Session, Room 5](#)

Chair: Assoc professor Andreas Kanavos

A Comparative Analysis of LLMs for Greek – English Machine Translation: ChatGPT-4 vs. Gemini

Kokotos Spyridon Eftychios, Kalliposis Stamatis, Kouris Panagiotis, Bontis Eleftherios-Georgios, Kermanidis Katia Lida

Human-AI Co-creation: LLMs, Contextual Hints, Performance

Gratsanis Panagiotis, Karydis Ioannis, Sioutas Spyros, Vonitsanos Gerasimos

Knowledge Extraction and Ontology Modeling in the SALLY Chatbot

Bouas Christos, Papoutsoglou Maria, Tassios Alexandros, Tegos Stergios, Manousaridis Konstantinos, Mavropoulos Thanassis, Vrochidis Stefanos, Meditskos Georgios

Knowledge Management Systems: A Review of Artificial Intelligence Integration and Technologies

Culbida Christos Ioannis, Mylonas Phivos, Troussas Christos, Krouska Akrivi, Sgouropoulou Cleo

13:45-15:00

Session 32, AIAI: MLAS 5 (MACHINE LEARNING / AGENT SYSTEMS)

[Remote Session, Room 6](#)

Chair: Asst professor Al hussaeni Khalil

Artificial Intelligence in Finnish and Swedish Workflows: A Comparative Survey of Micro- and Large-Scale Enterprises

Aho Markus, Niittymaa Jukka, Heilmann Pia, Hiltunen Esa, Nikolakopoulos George, Koval Anton

ICU Mechanical Ventilation Data Imputation

Dudhe Prathmesh, Li Jason, Yousuf Muhammad Hamza, Lehmann Jens, Vahdati Sahar

Immigration Detection in Multilanguage Tweets Using Machine Learning Algorithms

TARANIS DIMITRIOS, RAZIS GERASIMOS, ANAGNOSTOPOULOS IOANNIS

Integrating Artificial Intelligence and Digital Tools to Enhance Learning and Accessibility in Music Education

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

15:30-21:00

Excursion

The excursion activity is divided into 3 parts

1. Guided tour to the archaeological site of [Kourion](#)
2. Visit to a local Winery / short wine tasting
3. Visit to Omodos Village

The total duration of the excursion activity is estimated to be around 5 and a half hours.

The excursion will start at 15:30* by boarding the conference buses which will drive us to the archaeological site of Kourion. After our guided tour in Kourion we will board the buses again to drive us to a local winery to taste and learn about local grapes and wines. Finally, we will visit the traditional village of Omodos where we will have some free time to walk around and enjoy a coffee.

Departure. Due to traffic restrictions at the city center of Limassol, conference buses are not allowed to reach the conference venue so they will be waiting for us at a parking spot close by the venue. Our team will be waiting for you at the conference venue to guide you on the buses so we will all depart together. Please be sure to be at the conference venue on time otherwise you may miss the excursion.

Return to Limassol. Our estimated time of arrival to Limassol is 21:00. Buses will arrive at the same parking spot as departure. Due to time restrictions and local authority's regulations (preauthorization of bus routes), buses are not allowed to distribute participants at their hotels. Excursion activity is complimentary and free for all registered conference participants.

Please be sure to have your name badge/ QR code with you.

Tickets for accompanying and/or not registered persons can be purchased from the conference registration desk. Tickets for excursion activity costs 30 euros.

*Exact departure time will be announced during the first day of the conference

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Saturday 28/6/2025

Doctoral Track

AIAI 2025 Doctoral track will take place on the 3rd day of the conference, Saturday 28th of June 2025.

It will be an open session in which PhD students will present their work to all conference participants and they will have the opportunity to establish networking and to exchange ideas and thoughts about their research.

Doctoral track will take place as a poster presentation during all session breaks on Saturday 28th of June 2025

9:45 - 17:45 Registration

10:00-11:00

Session 33, Keynote 3: "Connecting AI to the Cyber-Physical World"

[Hybrid Session, Room 1 – Keynote 3](#)

Chair: Prof. Lazaros Iliadis

Keynote Speaker: Professor Marios M. Polycarpou

*Professor, Department of Electrical and Computer Engineering, University of Cyprus-
Advisory Board Chair, KIOS Research and Innovation Center of Excellence-
Honorary Professor of Imperial College London, U.K.-
Member of the Cyprus Academy of Sciences, Letters, and Arts-
Member of Academia Europaea (The Academy of Europe)*

11:30-13:00

Session 34, AIAI: AI4GD 1 (AI Applications for Achieving the Green Deal Targets Workshop)

[Hybrid Session, Room 1](#)

Chair: Alexander Kostadinov

Advancing Urban Air Quality Forecasting: A Deep Learning Approach for Real-Time Monitoring in Sofia

Kostadinov Alexander, Hristov Petar, Petrova-Antonova Desislava

Computer Vision-Based Plant Growth Stages Analysis for Optimizing Crop Yield

Arif Tehleel , Shafiq Zeeshan, Riaz Samad, Khan Gul Muhammad

Deep Learning-Based Precise Leaf Analysis for Segmentation and Deficiency Classification under Controlled Environment

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Azam Muhammad Raees, Shafiq Zeeshan , Shah Adil, Khan Gul Muhammad

Digital Competencies for Caregiving: Preliminary Review of Literature

Lahe Palmi

Urban Land Use Classification of High-Resolution Aerial Imagery Using RemoteCLIP: A Case Study of Sofia

Spasov Angel, Hristov Emil, Shirinyan Evgeny, Petrova-Antonova Dessislava

11:30-13:00

Session 35, EAAAI (EANN): DLC4 (DEEP LEARNING / CLASSIFICATION)

[Hybrid Session, Room 2](#)

Chair: Asst professor Konstantinos Delibasis

A Survey of Federated Learning-Based Intrusion Detection Methods in Medical IoT

Harhad Ahlem, Durand David, Drocourt Cyril, Utard Gil

Brain Inspired Learning for Neural Networks

Hewavitharana Jayani, Anand Amida, Giese Peter, Ierardi Carolina, Steinhofel Kathleen

Comparative Analysis of Machine Learning Techniques for Chronic Kidney Disease Prediction Efficiency

Islam Md Rabiul, Logofatu Doina

Exploring Knowledge Distillation for Model Compression in Edge Environments

Telma Garção, David Belo, Joana Sousa, João Ferreira

Needle-in-the-Haystack Testing LLMs with a Complex Reasoning Task

Schuster Thomas, Lambert Marian, Döring Nico, Krüger Robin

11:30-13:00

Session 36, AIAI: DL 4 (DEEP LEARNING)

[Hybrid Session, Room 3](#)

Chair: Dr. Apostolos Mavridis

Border Gateway Protocol Hijacks and Anomalies Detection: A Graph-based Deep Learning Approach

Elroy Or, Yosipof Abraham

Domain Adaptation for Automated Tag Prediction in Competitive Programming

George Dinu, Cristian Mihaescu, Traian Rebedea

Facial Expression Recognition Using Dual Direction Attention and Diffusion Models with Self-Supervised Learning

Ullah Mohib, Yamin Muhammad Mudassar, Afridi Hina, Imran Ali Shariq, Ullah Habib

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Iterative Resolution of Prompt Ambiguities Using a Progressive Cutting-Search Approach

Marozzo Fabrizio

Leveraging Incremental Domain Adaptation in Olive Disease Detection

Guerhazi Emna, Mdhaftar Afef, Jmaiel Mohamed, Freisleben Bernd

11:30-13:00

Session 37, AIAI: ML (MACHINE LEARNING)

[Remote Session, Room 4](#)

Chair: Asst professor Sotiris kotsiantis

A Second-Order Adaptive Network Model for Effectiveness of Cognitive Behavioral Therapy on Body Dysmorphic Disorder

Gong Xinju, Kaiser Nicola, Treur Jan

Fault Detection in Inverter-Driven Permanent Magnet Synchronous Motor Systems using Semi-Supervised Learning

Davrazos Gregory, Fazakis Nikos, kotsiantis Sotiris

Higher-Order Multi-Adaptive Neural Network Modeling of the Role of Epigenetics in Epilepsy

de Rizzo Matteo, Treur Jan

Interest-Based Pattern Mining For Deforestation Analysis in the Kroumiria Region, Tunisia

Emna KLAI, Ahmed TOUJANI, Manel ZAGHDOUDI, Wahbi JAOUADI, Imed Riadh FARAH, Sami Faiz

Multi-order Adaptive Dynamical System Modeling of the Role of Epigenetics in the Development of Hypomania

Aderetti Jacob, Treur Jan

11:30-13:00

Session 38, AIAI: MHDW 3 (Mining Humanistic Data Workshop)

[Remote Session, Room 5](#)

Chair: Assoc professor Christos Makris

An AI Ethics 'Footprint' for a 'Do Good' AI in Healthcare contexts: Policy and Regulatory considerations

Papadopoulou Elsa, Gerogiannis Demetris, Adam Styliani, Exarchos Themis

Fine-Tuning BERT for Robust Sentiment Classification of IMDb Reviews

Papadimitriou Orestis, Al-Hussaini Khalil, Karamitsos Ioannis, Maragoudakis Manolis

LLM-powered Topic Modeling for Discovering Public Mental Health Trends in Social Media

Zhao Chuqing, Chen Yisong

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Thyroid Nodule Classification Using Convolutional Neural Networks in Ultrasound Imaging

Kanavos Athanasios, Karamitsos Ioannis, Maragoudakis Manolis

Uncovering Gender Biases in AI-Powered Low-Code and No-Code Solutions

*Tsoukalas Spyridon, Voutyrakou Dialekti Athina, Katsiampoura Gianna, Karelis Marios,
Mikalef Patrick, Avlonitis Markos*

14:00-15:30

Session 39, Keynote 4: "Is A.I. Unstoppable? (A.I. & Ethics)"

[Hybrid Session, Room 1 – Keynote 4](#)

Chair: Prof. Lazaros Iliadis

Keynote Speaker: Professor John MacIntyre

Co Editor-in-Chief, AI and Ethics

16:00-17:45

Session 40, AIAI: MVNLX (MACHINE VISION / NATURAL LANGUAGE / EXPLAINABILITY)

[Hybrid Session, Room 1](#)

Chair: Dionysios Koulouris

Adversarial Attacks on Trees: Size Matters

*Drousiotis Efthymoulos, Habibi Soodeh, Varsi Alessandro, Maskell Simon, Spirakis Paul,
Lovett Tom*

Automatic Carotid Symptomatic Plaque Classification Using Deep Learning

*Babazadeh Khameneh Nahid, A. Brown Robert, Psaromiligkos Ioannis, S. Daskalopoulou
Stella*

Curriculum Learning for Semantic Boundary Estimation with Fourier Spectral Alignment

Finlinson Alastair, Moschoyiannis Sotiris

Integrating AI and RDF Knowledge Graphs with MITRE ATT&CK for CTI Insights

*Mavridis Apostolos, Tegos Stergios, Anastasiou Christos, Papoutsoglou Maria, Meditskos
Georgios*

OPJUSTICE - A Multi-label Text Classification Model

Greco Ionuț-Cătălin, Popescu Paul Stefan, Mihaescu Marian Cristian

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

16:00-17:45

Session 41, AIAI: OPT (OPTIMIZATION)

[Hybrid Session, Room 2](#)

Chair: Prof. Abraham Yosipof

Artificial Immune Systems Approach for Control of Chaos in One-Dimensional Chaotic Maps

Galvez Akemi, Iglesias Andres

Autonomous Vessels Collision Verification: Geometric optimization

Ben Lahbib Hiba, Bennani Mohamed Taha, Vain Jüri

Predicting Battery Discharge Behavior for Sparse Data with Augmentation

*Liza Obermeier, Muhammad Daniel Bin Mohd Khir, Niklas Küchen, Tetyana Turiy,
Johanna Dolinga, Thomas Gründer, Benjamin Landenberger, Andre Ebert*

Towards Effective AI in Healthcare: Identifying Success Factors and the Potential of Human-in-the-Loop

Theilmann Karolin, Dahlem Nanna, Steffny Laura, Podevin Daniela, Hartnik Julia, Greff Tobias

16:00-17:45

Session 42, AIAI: CSSP (COGNITIVE / SPIKING / SIGNAL PROCESSING)

[Hybrid Session, Room 3](#)

Chair: Prof. Paul Stefan Popescu

Analysis of auditory oddball paradigm during hypnosis

Adama Sophie, Bogdan Martin

Looking at the Influence of State-of-Mind and Biases on Decision Making in Cyber Security: A Multi-Adaptive Neural Agent Model

Bouma Debby, Treur Jan, Roelofsma Peter H.M.P.

Predicting electrocorticography signals -ECoG- from musical stimulus: A Comparative Analysis of Linear and Deep Learning Methods

Daskalou Areti, Delibasis Konstantinos, Nousias George, Maglogiannis Ilias

Solving the Lunar Lander Problem with Spiking Neural Networks and One-hot Encoding

Hansert Jonas, Offermann Peter, Gechter Franck

Temporal Code-driven Stimulation Adaptability to Neural Variability using Victor-Purpura Distance

Ayala Valencia Alberto, Lareo Angel, Varona Pablo, Rodriguez Francisco B.

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

16:00-17:45

Session 43, EAAAI (EANN): MLPR 2 (MACHINE LEARNING / PATTERN RECOGNITION)

[Remote Session, Room 4](#)

Chair: Prof. Ioannis Refanidis

A Human-Centric Decision Support System for Zero-Defect Manufacturing Enabled by Human-in-the-Loop Learning

Mitsiaki Andreana, Tsita Christina, Dimitriou Nikolaos, Tzovaras Dimitrios

Autonomous Navigation in Swarm of UAVs Using Spatio Temporal Data and Constrained-Reinforcement Learning

Shrivastava Abhudaya, Petridis Christos, Vacic Marijana, Obradovic Zoran

Harnessing Machine Learning for Rain Induced Landslide Detection and Analysis

Gupta Shelly, Otudi Hussain, Hai Ameen Abdel, Aljurbua Rafaa, Andjelkovic Jovan, Alharbi Abdulrahman, Obradovic Zoran

Privacy-Preserving and Personalized AI Modules for E-Commerce Platforms

Florez Arantzazu, Azpiroz Izar, Florez Ane Miren, Gil Amaia, Zotova Elena, Solsona Roger, Olaizola Igor G., Quartulli Marco Francesco

Spatiotemporal Multiplex Network Model for Predicting Forced Outage Severity in Distribution Grids

Aljurbua Rafaa, Baembitov Rashid , Petridis Christos , Saranovic Daniel , Kezunovic Mladen, Obradovic Zoran

16:00-17:45

Session 44, AIAI: MLDL 1 (MACHINE LEARNING / DEEP LEARNING)

[Remote Session, Room 5](#)

Chair: Dr. Anastasios Panagiotis Psathas

Comparison of Machine Learning and Deep Learning Models for Change of Direction Classification Using Engineered Features

Jaiswal Pranay, Kaushik Abhishek, Lawless Fiona, Malaquias Tiago, McCaffery Fergal

Discovering Fraudulent Card Transactions With Higher Order Graph Embeddings Over Neo4j

Hadjisofokelous Christos, Drakopoulos Georgios, Sioutas Spyros, Mylonas Phivos

Explainable AI-Driven Feature Selection for Improved Intrusion Detection Systems in the Internet of Medical Things

Yacoubi Mohammed , Moussaoui Omar, Drocourt Cyril

Markov-Enhanced Clustering for Long Document Summarization: Tackling the 'Lost in the Middle' Challenge with Large Language Models

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

19:15-22:30

Gala Dinner Event

AIAI / EAAAI – EANN 2025 Gala Diner event will take place at the traditional Cypriot tavern “Yialousa” at Mouttagiaka village. It includes a traditional menu with a variety of Cypriot tapas / “meze” and a selection of drinks (zivania, wine, beer, soft drinks). A Cypriot dancing group will accompany and will teach you how to dance.

All participants will use conference buses for their transportation to and from the tavern. The expected duration of the Gala activity is around 3 to 3 and a half hours.

The excursion will start at 19:15* by boarding the conference buses which will drive us directly to the tavern.

Departure. Due to traffic restrictions at the city center of Limassol, conference buses are not allowed to reach the conference venue so they will be waiting for us at a parking spot close by the venue. Our team will be waiting for you at the conference venue to guide you on the buses so we will all depart together. Please be sure to be at the conference venue on time otherwise you may miss the excursion.

Return to Limassol. Our estimated time of arrival to Limassol is 22:30. Buses will arrive at the same parking spot as departure. Due to time restrictions and local authority’s regulations (preauthorization of bus routes), buses are not allowed to distribute participants at their hotels. Gala Diner event is free for all participants with a FULL registration. **Student registrations do not include Gala Diner event tickets.**

Please be sure to have your name badge/ QR code with you.

Tickets for student registration holders, accompanying and/or not registered persons can be purchased from the conference registration desk. Tickets for Gala Diner event costs 55 euros.

*Exact departure time will be announced during the first day of the conference.

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Sunday 29/6/2025

9:45 - 16:15 Registration

10:00-11:00

Session 45, Keynote 5: "From Language Models to Autonomous Agents: Evolutionary Trajectories and Industrial Transformations in AI-Driven Systems"

[Hybrid Session, Room 1 – Keynote 5](#)

Chair: Prof. Ilias Maglogiannis

Keynote Speaker: Professor John Soldatos

Senior R&D Consultant and Innovation Delivery Specialist with INTRASOFT International and Honorary Research Fellow at the University of Glasgow, UK

11:30-13:00

Session 46, AIAI: BB 4 (BIOINFORMATICS / BIOMEDICAL)

[Hybrid Session, Room 1](#)

Chair: Assoc professor Boracchi Giacomo

An Ensemble Approach to Predict Immunotherapy Efficacy in Non-Small Cell Lung Cancer using Digital Pathology

Zec Aleksandra, Declich Marcello Matteo, Sacco Matteo, Trovò Francesco, Lorenzini Daniele, Prelaj Arsela, Mišković Vanja

Classifying cognitive states of Alzheimer's Disease with machine learning using digital biomarkers from the Bio-Hermes study cohort

Eoin Houstoun, Daniel Stamate, Henry Musto, David Reeves, Catharine Morgan, Roxana Hutanu, Kalliopi Mavromati, Dorina Cadar, Daniel Stahl

Normative Modeling of Functional Connectivity Alterations in Psychiatric Disorders and Chronic Pain: A Resting-State fMRI Approach

Boldisor Dragos, Udrea Andreea, Trascau Mihai

Optimizing Alzheimer's Detection: A Comparative Analysis of Pre-Processing Techniques and FreeSurfer Integration with EfficientNetV2S

Bhatoa Jai, Johansen Stian Knoll, Gupta Rashmi

Proteomics, Neuropsychological and Demographics Multi-Modal Machine Learning Approach to Alzheimer's Disease Prediction on the Bio-Hermes Study Cohort

Henry Musto, Daniel Stamate, David Reeves, Catharine Morgan, Roxana Hutanu, Kalliopi Mavromati, Dorina Cadar, Daniel Stahl

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

11:30-13:00

Session 47, AIAI: SilverTech 1 (SilverTech Workshop)

[Hybrid Session, Room 2](#)

Chair: Prof. Andreas Spanias

Digital Twins in Older adults' Mental Healthcare: A Literature Review

Kokkas Stylianos, Segkouli Sofia, Votis Konstantinos

Early Detection and Prevention of Dementia: an AI-Driven Multimodal Approach

Huang Andy, Manias George, Sangiovanni Mirella, Borovits Nemanja, Tamburri Damian, Ntanasi Eva, Scarmeas Nikolaos, van den Heuvel Willem-Jan

Leveraging BERT Variants for Intent Classification in Patient Summary Chatbots

Vasili Alik, Schiza Eirini

11:30-13:00

Session 48, AIAI: B5G-PINE 5 (B5G – Putting Intelligence to the Network Edge)

[Hybrid Session, Room 3](#)

Chair: Dr. Ioannis Chochliouros

Enabling Ecosystems by Efficient Confluent Edge Networks based on Sensing and Network Intelligence

Mesogiti Ioanna, Theodoropoulou Elina, Limperopoulos George, Diakoumakos Jason, Anastasopoulos Markos, Tzanakaki Anna, Kaszubowska-Anandarajah Aleksandra, Kilper Dan, Natalino Da Silva Carlos, Monti Paolo, Svensson Tommy, Kaeval Kaida, Pryor Simon, Browning Colm

6G Extended Reality Applications for Interactive Learning Experiences in Rural Schools

Patachia Cristian, Iordache Marius, Constantin Ioan, MIHAI Marius Razvan

Implementation Design and Validation Results of a Chronic Wound Management System

Powered by Beyond 5G Private and Nomadic Networking

Corici Andreea, Hocquel-Hans Martin, Chaudhary Kalpana, Kuntz Simone, Corici Marius, Häusler Benny, Deter Anne, Grohnert Anne, Lahmann Nils

Cloud-Native Scheduling and Resource Orchestration: A Deep Dive into AI-Driven Approaches

Dias Tomás, Ferreira Luís, Fevereiro Diogo, Rosa Luis, Cordeiro Luís, Fernandes João

Network Policy Enforcement in cloud-native environments

Tomas Pedro R., Silva Sofia, Neto Marco, Proença Jorge, Luis Rosa, Cordeiro Luis, Taleb Tarik, Cruz Tiago

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

11:30-13:00

Session 49, EAAAI (EANN): MLDL 2 (MACHINE LEARNING / DEEP LEARNING)

[Remote Session, Room 4](#)

Chair: Prof. George Papakostas

Assistive X for Amyotrophic Lateral Sclerosis

Khatri Radhika, Rizwan Samin , Khan Faryal, Yasin Sudais, Alvi Faisal , Pasta Qasim

Data-Driven BLEVE Overpressure Prediction Using Explainable Machine Learning

Shi Zifan, LI QILIN, Li Ling, Shao Yanda, Hao Hong

Early Detection of Voice Pathology from Cry Analysis Using Non-Interpretable Features and Parallel 1D CNN

El Omari Mouad, El Belghiti Younes, Belmajdoub Hanae, Minaoui Khalid, Saoudi Samir

EEG-based Hybrid Emotion Recognition Model with Statistical-Wavelet Features and Modality-Agnostic Loss

Ali Asfak, Banerjee Jotiraditya, Saha Debam, Dutta Akash, Schwenker Friedhelm, Sarkar Ram

Machine Learning Analysis of Dissolved Oxygen at the Hydrological Station of G. Giannouli Greece

Kiourt Nichat, Iliadis Lazaros , Akratos Chsristos , Papaleonidas Antonis

11:30-13:00

Session 50, AIAI: DL 5 (DEEP LEARNING)

[Remote Session, Room 5](#)

Chair: Assoc professor Katia Lida Kermanidis

A Fine-grained Actor-Based Autoencoder Model

Dyubele Sithembiso, Coulter Duncan

Imbalanced Graph Learning via Graph Attention Network and Variational Autoencoder

Binjola Amit, Gumasthi Nikhil , Ankitha Shriram , Sangani Kapil, Ravi Kumar Medabalimi, Singla Saurav, Rao Satyaprasad

Insurance Claim Prediction Using Unbiased Confidence Guarantees

Tsoumas Konstantinos, Papadopoulos Harris

Multi-Model Data Transfer by Knowledge Distillation for Enhancing Precipitation Nowcasting

WANG QIHANG, Tomita Tomohiko, Fukui Ken-ichi

Reinforcement Learning for UPI Fraud Detection: Actor Critic Optimization Approach

Jani Raj, Ravi Kumar Medabalimi, Gumasthi Nikhil, Singla Saurav, Kailasam Thirumalai

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

14:00-14:45

Session 51, Tutorial: "QuanTrees: Histograms for Monitoring Multivariate Data Streams"

[Hybrid Session, Room 1 – Tutorial](#)

Chair: Assoc professor Harris Papadopoulos

Tutorial by: Professor Giacomo Boracchi

Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, Italy

14:45-16:15

Session 52, AIAI: LLM 2 (LARGE LANGUAGE MODELS)

[Hybrid Session, Room 1](#)

Chair: Prof. Elias Pimenidis

Automating Industrial Quality Control: A Multimodal LLM and RAG Framework for Anomaly Detection

Bianchini Filippo, Calamo Marco, Marinacci Matteo, Rossi Jacopo, Mecella Massimo

Benchmarking Vision Language Models on German Factual Data

Peinl René, Vincent Tischler

Comparative Analysis and Evaluation of SLMs and LLMs for Stock Price Movement Prediction

van der leij Koen, Manias George, Leung Yik Kiu, van den Heuvel Willem-Jan

Pareto-Optimized Open-Source LLMs for Healthcare via Context Retrieval

Bayarri Planas Jordi, Kumar Gururajan Ashwin, Garcia Gasulla Dario

Vulnerability Patch Prediction using LLM based Bert Model with Trustworthy AI Practice for Cyber Security Enhancement

Basheer Nihala, Islam Shareeful, Papastergiou Spyridon , Mouratidis Haralambos , Nikolaos Papagiannopoulos

14:45-16:15

Session 53, AIAI: SilverTech 2 (SilverTech Workshop)

[Hybrid Session, Room 2](#)

Chair: Asst professor Efthymou Kyriacou

A NeuroSymbolic Human-in-the-loop Approach Towards Fusing Medical Expert Knowledge with ANNs

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Theodoropoulos Spyros, Makridis Georgios, Pnevmatikakis Aristodemos, Moulos Vrettos, Kyriazis Dimosthenis, Tsanakas Panayiotis

Conceptualization and functional specifications of an e-learning ecosystem towards the support of older adults and their supports in developing digital and health literacy skills

Billis Antonis , Mantziari Despoina, Kalfa Vasiliki, Rigas Emmanouil, Tsormpatzoudi Styliani-Olympia , Karagianni Maria, Diamantis Konstantinos , Bamidis Panagiotis

Improved Explainability on Clinical Settings through the Utilization of an Advanced Explainable Dashboard Hub

Manias George, Kouremenou Eleftheria, Azqueta-Alzúaz Ainhoa, Alexakis Emmanouil, Kleftakis Spyridon, Kyriazis Dimosthenis

The ETHAI methodology. A context-sensitive, actionable approach to ethics of AI in Healthcare
Volpini Lorena, Prosseda Valerio, Morpurgo Francesca, Glišović Krivec Špela , Krivec David

14:45-16:15

Session 54, AIAI: LLMRS (LARGE LANGUAGE MODELS / RECOMMENDATION SYSTEMS)

[Hybrid Session, Room 3](#)

Chair: Dr. Antonios Papaleonidas

A Personalised Music Recommendation System based on User's Emotions

Martins Ana , Pinto André, Grilo Carlos, Ramos João, Miragaia Rolando, Ribeiro José, Pereira António

Cross-domain recommendations using attention and multitask learning

Papachronopoulos Gerasimos, Gkillas Alexandros, Kosmopoulos Dimitrios

Enhancing Cryptocurrency Sentiment Analysis with GPT-4: A Comparative Study

Ray Jiban Kumar, Mim Sheikh Sharfuddin, Logofatu Doina

Personalized Hotel Recommendation System

Balan Andrei, Popescu Paul Stefan, Mihaescu Cristian

SurveyBot: A New Era of Web Survey Pretesting

Shahania Saijal, Spiliopoulou Myra, Broneske David

14:45-16:15

Session 55, AIAI: MV 2 (MACHINE VISION)

[Remote Session, Room 4](#)

Chair: Dr. Daniel Stamate

Bi-Modal Image-Text Fusion for Sentiment Analysis

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

NOUISSER AICHA, KHEDIRI NOUHA, kherallah monji, charfi faiza

Enhancing Driver Monitoring in HRI: A Privacy-Preserving and Adaptive ML Framework

Farhin Farhad Riya, Shahinul Hoque, Eric Reinsmidt, Jinyuan Stella Sun, Hairong Qi, Lee D. Han

Integrative Analysis of Video and Audio for Micro-Expression Recognition

Sayed Rehan , Pankaj Pratyush, Sharma Aryan, Srivastava Pragya, Sharath Shylaja S.

Large Vision Model (LVM): An Exploration of Vision Models with Visual Sentences of Images and Videos

Zafar Muhammad Hamza, Sharma Vijeta

VisionCore: Adapting Efficient Visual Answering Through Enhanced Spatial Reasoning

ozkul ufuk, Levent KARACAN, Cemil ZALLUHOGLU

14:45-16:15

Session 56, AIAI: MPR 2 (MODELING / PATTERN RECOGNITION)

[Remote Session, Room 5](#)

Chair: Dr. Razis Gerasimos

Blueprint for Integrating Artificial Intelligence in Educational Programming Environments without Disrupting Pedagogical Coherence

Nikolaidis Spyridon, Refanidis Ioannis

Energy Load Forecasting with Distributional Emotion Embeddings

Liapis Charalampos, Karanikola Aikaterini , Kotsiantis Sotiris

Evaluation of Validity of Users' Behavioral Models Detected from Session Data

Erika Nazaruka, Jurijs Kornienko, Vitaly Zabiniako, Toms Rožkalns

Generating counterfactual explanations for clustering models based on their equivalence to classification models

Karra Antonia, Vardakas Georgios, Pitoura Evaggelia, Likas Aristidis

Non-monotonic link function: a new method for binary regression in maximum likelihood estimation (MLE)

Gheno Gloria

16:15-17:00 Closing Ceremony

[Hybrid Session, Room 1 – Closing Ceremony](#)

Note that all times are in Limassol - EEST (Eastern European Summer Time) Zone

Webex Events Platform Access Links

Main Rooms:

25th EANN / EAAAI – 20th AIAI 2024 Room 1 & Plenary

Sessions: 1, 2, 8, 14, 20, 21, 27, 33, 34, 39, 40, 45, 46, 51, 52

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m209a93ed39f2520830d8ea20c8006fc1>

26th EAAAI / EANN – 21st AIAI 2025 Room 2

Sessions: 3, 9, 15, 22, 28, 35, 41, 47, 53

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m235006a514bb63d4add9afe1f1235850>

26th EAAAI / EANN – 21st AIAI 2025 Room 3

Sessions: 4, 10, 16, 23, 29, 36, 42, 48, 54

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m65d400bbe2812760de5c599820c79a8e>

26th EAAAI / EANN – 21st AIAI 2025 Room 4

Sessions: 5, 11, 17, 24, 30, 37, 43, 49, 55

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m1d634412ef6428a5a2bf13f9f849c7c6>

26th EAAAI / EANN – 21st AIAI 2025 Room 5

Sessions: 6, 12, 18, 25, 31, 38, 44, 50, 56

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m9467e5c89e73229bf09224c9604c9d18>

26th EAAAI / EANN – 21st AIAI 2025 Room 6

Sessions: 7, 13, 19, 26, 32

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m3d813ec80a307d0090328e8baf28dbe5>

Support Rooms:

26th EAAAI / EANN – 21st AIAI 2025 Registration, Demo & Support Room

<https://eann-aii.webex.com/eann-aii/j.php?MTID=mf05b43316d250a9bbfac7920b6d3b6a9>

During conference days our EANN / EAAAI – AIAI 2024 Registration Demo & Support Room will be available as follows:

- Thursday 26th of June 2025, 10:00 to 15:00 EEST
- Friday 27th of June 2025, 09:45 to 18:00 EEST
- Saturday 28th of June 2025, 09:45 to 17:45 EEST
- Sunday 29th of June 2025, 09:45 to 16:15 EEST

During the above timeslots all participants can reach our team by:

- Using the Registration, Demo & Support Room
- Messenger chat using the messenger plugin at the conference website
- Viber Text or call at: +30 698 3417351
- WhatsApp Text or call at: +30 698 3417351
- Direct call at: +30 698 3417351

More info can be found under the "**Live Event**" menu on the conference website.