

**Detailed Program of the**

**ICCCI 2026**

**18th International Conference on**

**Computational Collective**

**Intelligence**

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**23-25 September 2026**

**Heraklion, Greece**

**Wednesday 23/9/2026**

**8:30 - 17:00 Registration**

**09:30-10:00 Welcome Session**

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**10:00 - 11:00**

**Session 1, Keynote 1:** "Seeing Humans Through AI: Advances in Human-Centered Computer Vision"

Chair: Prof. Ngoc Thanh Nguyen

**Keynote Speaker: Prof. Antonis Argyros**

*Computer Science Department, University of Crete Affiliated Research Fellow, Institute of Computer Science, FORTH*

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**11:45 - 13:00**

**Session 2, ICCCI: LRN** ( Reinforcement, Neuro-symbolic & Adaptive Neural Learning )

Chair: Prof. Peter Brída

Sparse Neural Code Representations for Reinforcement Learning with Linear Action-Value Function Approximation

*Florin Leon*

Inductive Logic Programming Based on Model Interpretation

*Tomo Nakazawa, Moeko Okawara, Tsutomu Kumazawa, Yasushi Kambayashi, Munehiro Takimoto*

Trajectory Separation for Scalable Credit Assignment in Cooperative Multi-Agent Reinforcement Learning

*Tamás Takács, Laszlo Gulyas, Gergely Magyar*

Influence of Recursive Grouping of Neuron Inputs on Contextual Neural Networks in Classification Tasks

*Maciej Huk, Jae Soo Yoo, Keun Ho Ryu*

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**11:45 - 13:00**

**Session 3, ICCCI: ODTS ( Optimization, Distributed & Trustworthy AI Systems )**

Chair: Asst. Prof. Adrianna Kozierekiewicz

Oversampling with a Hybrid VAE-Transformer for Mining Multi-Class Imbalanced Datasets

*Piotr Jedrzejowicz, Izabela Wierzbowska*

Social Attraction Particle Swarm Optimization

*Márk Domonkos, Mohamad Mohamad, Sharbel Kalloumah, János Botzheim*

Egress Tunneling for Post-Exploitation via Remote Desktop Protocol Proxy

*Jean Rosemond Dora, Friday Ikechukwu Agu*

Distilled but Not Private: Investigating Model Inversion Attacks on IoT Intrusion Detection Systems

*Gia-Nghi Tran, Da-Vit Nguyen, Dat-Thinh Nguyen, Nhien-An Le-Khac, Kim-Hung Le*

An XAI-based imbalanced data classifier selection from multi-criteria optimisation results

*Weronika Węgier, Michał Woźniak*

Detecting citation cartels a preliminary review

*Ewa Łyko, Adrianna Kozierekiewicz*

LEON: Location Embeddings from OSM Neighborhoods via Hexagonal Graph Masked Autoencoders

*Szymon Soltysiak, Radosław Malek, Jędrzej Kusnierz, Miłosz Chojecki, Piotr Szymanski, Aleksandra Kawala-Sterniuk*

On Causal and Agentic AI: An Integrative Conceptual and Foundational Perspective

*Jan Treur*

A Novel Adaptive Efficiency Metric for Maximum Flow Algorithms in Dynamic Networks

*Agnieszka Wosiak, Wojciech Stankiewicz, Katarzyna Żykwńska*

On-line testing in certification of quantum random number generators using the Bell-CHSH inequality with permutation test

*Piotr Jóźwiak*

Client Clustering in Federated Learning: A Survey of Methods, Architectures, and Research Challenges

*Barbara Wędrychowicz, Marcin Maleszka*

Optimization Modelling of Neural Network Learning with Biomimetic Intelligence Simulation Algorithms for Function Approximation

*Zhen-Yao Chen, Ming-Te Cheng*

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**11:45 - 13:00**

**Session 4, ICCCI: BCI ( Brain-Computer Interface )**

Chair: Prof. Kazimierz Choroś

Persona-Guided Sentiment Analysis of Medical Reviews with Encoder and Large Language Models

*Karolina Nowacka, Bartłomiej Koptyra, Jan Kocoń*

A Modular Hybrid Approach to Affective Music Generation for Music Therapy

*Paweł Dzikiewicz, Izabela Paniczek, Dominika Serafin, Michał Kedziora*

EEG-Based Brain Signal Representations for Affective Computing: A Spectral Feature Learning Approach

*Katarzyna Białas, Wojciech Majchrowski*

A Concept Bottleneck Framework for Diagnosing Modality Contributions in Multimodal Affective Computing

*Tomasz Adamczyk, Wiktoria Mieleszczenko-Kowszewicz*

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**14:00 - 15:15**

**Session 5, ICCCI: SIRENE ( Security and reliability of information, networks, AI-based systems and social media )**

Chair: Dr. Gracjan Katek

Improving secure code synthesis with taxonomy-guided agents

*Jakub Reš, Kamil Malinka, Aleš Smrčka, Jakub Brnak*

SCE-FAKE: Sparse Coding Ensemble for Fake News Detection

*Rafał Kozik, Marek Pawlicki, Aleksandra Pawlicka, Michał Choraś*

SemKGraph (Semantic Knowledge Graph): New Hybrid Disinformation Detection Approach

*Gracjan Kątek, Rafał Kozik, Michał Choraś*

A Post-Quantum Secure Transport Protocol for Automotive Data

*Mihail Gaianu, Petre-Alexandru Dumitru*

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**14:00 - 15:15**

**Session 6, ICCCI: HCLSEAI ( Human-Centered Language, Speech & Explainable AI )**

Chair: Dr. Marcin Pietranik

Unveiling the Valence–Dominance Ratio: Toward Recognizing Emotions in Tunisian Speech

*Latifa Iben Nasr, Ismail Badache, Abir Masmoudi, Lamia Hadrich Belguith*

Is It Possible to Generate a Large Corpus of Word Forms for Low-Resource Languages and Train a Neural Model of Sufficient Quality?

*Ualsher Tukeyev, Zhansaya Segizbayeva*

Method for Improving the Accuracy of Brain Tumors Segmentation in MRI Images

*Ngan Khanh Dinh Nguyen, Sinh Van Nguyen, Thong Dinh Nguyen*

XAI-enhanced Comparative Opinion Mining via Aspect-based Scoring and Semantic Reasoning

*Ngoc-Quang Le, T. Thanh-Lam Nguyen, Quoc-Trung Phu, Thi-Phuong Le, Duy-Cat Can, Hoang-Quynh Le*

Study of Deepfake Audio Detection in Telephone Speech with Pretrained Self-Supervised Models

*Szymon Sielecki, Maciej Kisielewicz, Michal Kedziora*

From Speech to Readable Text: Automatic Punctuation in ASR Systems of the Kazakh language

*Aidana Karibayeva, Oleg Myssov, Dina Amirova, Balzhan Abduali, Vladislav Karyukin, Adina Karybayeva*

Enhancing Empathetic Dialogue Generation in Open-Source LLMs via Emotion-Aware Prompting

*Afef Ben Said, Abdelwaheb Gueddes, Imen Jegham, Mohamed Ali Mahjoub*

DIAM: A New Set of Deterministic Accessibility Metrics for User Interface Evaluation in Mobile Applications Generated by Large Language Models

*Rafał Kruszyna, Michał Szczepanik, Aleksandra Czarniecka*

Formal Reasoning and Guidance Platform for Transparent Scaffolding for Multi-Agent Debate

*Yaroslav Harbar, Jarosław A. Chudziak*

Comparative UX Analysis of Compass and Minimap Navigation Tools in a 3D Open World

*Marek Kopel, Maciej Walczyński, Natalia Krauze*

When Silence Matters: How VAD-driven Whisper Architectures reshape Temporal Alignment in Low-Resource Multilingual ASR

*Samawel Jaballi, Salah Zrigui, Henri Nicolas, Mounir Zrigui*

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**14:00 - 15:15**

**Session 7, ICCCI: SecICS ( Security of Industrial Control Systems and Critical Infrastructure )**

Chair: Dr. Marcin Maleszka

Epistemic Instrumental Convergence in Partially Observable Agents

*Ondrej Rozinek*

A Mahalanobis-Regularized Geometry-Aware Variational Autoencoder for Explainable Credit Card Fraud Detection

*Minenhle Mpulo, Edgar Jembere, Anban Pillay*

Security-by-Architecture in Smart Village IIoT/OT: A Segmented Point-to-Point Municipal Fiber Network Case Study

*Jiří Novotný, Tomáš Valenta, Josef Horálek*

Secure and Reliable Sensor Network for Urban Traffic Monitoring

*Ivana Bridova, Jozef Papan, Darius Andriukaitis, Juraj Machaj, Peter Brida*

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**15:45 - 17:00**

**Session 8, ICCCI: EDGE ( Edge-Efficient AI, NAS & Compression )**

Chair: Prof. Leon Florin

Prompt-guided Resource-aware Neural Architecture Search for TinyML Object Detection Models

*Nazmus Sakib, Marco Zennaro, Naushin Nower*

REVE Foundation Model for Seizure Prediction via Scalp-EEG Transfer Learning

*Asma Baghdadi, Rahma Fourati, Fadoua Drira*

Edge QuantNet: An Ultralight Quantized SE-ResNet Architecture for Leaf Disease Classification on Resource-Constrained Devices

*Sadia Hossain, Marco Zennaro, Naushin Nower*

LLM Compression with Jointly Optimizing Architectural and Quantization choices

*Hoang-Loc La, Truong Thanh Le, Amir Taherkordi, Hoai Phuong Ha*

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**15:45 - 17:00**

**Session 9, ICCCI: AML - IMIDH - QC ( Advanced Machine Learning - Intelligent Medical Informatics and Digital Health - Quantum Computing )**

Chair: Dr. Piotr Jóźwiak

MRI-Based Lumbar Spinal Stenosis Classification Using 3D Convolutional Neural Networks

*Jakub Skwierczyński, Wojciech Dąbrowicki, Lukasz Jelen*

Probabilistic and Interpretable Wafer Map Clustering Using Autoencoders

*Itilekha Podder, Tamas Fischl, Udo Bub*

When Accuracy Is Not Enough: Segmentation-Guided Explainable Brain Tumor Classification in MRI

*Emanuel Covaci, Flavia Costi, Ana Corlan, Darian Onchis*

Uncovering Transient Feature Interactions in Multi-Series Forecasting via Shapley Interaction Quantification

*Mátyás Kuti-Kreszács, Laura Dioşan*

Exploring Hamiltonian Control of a Quantum Environment via Reinforcement Learning for the Traveling Salesman Problem

*Paweł Kotzbach, Wojciech Bożejko*

CellVote: From Single-Cell Predictions to Image-Level Antimicrobial Resistance Decisions

*Son Huynh, Huan Tran, Minh Quang Tran Nguyen, Phuong Do, Hien Nguyen, Binh Nguyen*

RiceCAM-Bench: Focus Score Benchmarking of CAM Explainability Methods

*Quang-Anh-Kiet Tran, Huynh-Dai-Nhan Tran, Tan-Nguyen Ngo, Tan-Phuoc Pham, Phat Tran, Tuan-Huy Nguyen, Manh-Hung Trinh, Hoang-Anh Pham*

Development of an Explainable AI-Driven Algorithm for the Analysis and Verification of Voice Recording Authenticity

*Izabela Paniczek, Krzysztof Brzostowski*

Identifying Causal Drivers of Telecommunication Customer Churn: A Double/Debiased Machine Learning and Bayesian Multilevel Approach

*Nguyen Hai Chau*

Beyond FLOPs: Are NAS Benchmarks Ready for the Edge?

*Hoi Le Minh Khanh, Duc-Thanh Ngo, Quan Le-Trung*

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**15:45 - 17:00**

**Session 10, ICCCI: CCINLP** ( Computational Collective Intelligence and Natural Language Processing )

Chair: Dr. Francis Lareau

Mining Linguistic Asymmetries in Science-Policy Knowledge Flows: A Large-Scale Multilingual Analysis

*Francis Lareau, Jérémie Dion, Louis Renaud-Desjardins, Malvina Barra, Luisa Ripoll-Alberola, François Claveau*

CAF-Gen: A Multi-Agent System for Enriching Argumentation Structures

*Jakub Bqba, Jaroslaw A. Chudziak*

Divergent Effects of Cross-Lingual Translation on Calibration and Explanations in Cyber Threat Sentiment

*Tan-Nguyen Ngo, Huynh-Dai-Nhan Tran, Manh-Hung Trinh, Truc-Quynh Truong, Tan-Phuoc Pham, Thi-Ninh-Hien Ngo, Quang-Anh-Kiet Tran, Tuan-Huy Nguyen, Hoang-Anh Pham*

A Hybrid E-Learning Recommendation System Incorporating User Reviews and Ratings for Enhanced Course Selection

*Manar Joundy Hazar, Samawel Jaballi, Mohsen Maraoui, Mounir Zrigui, Henri Nicolas*

**19:15 – 21:00**

**Welcome reception**

ICCCI 2026 welcome reception will take place at the “360 Roof Top Bar” of the conference venue (Astoria Capsis Heraklion hotel). The event will start at around 19:15 and it will have an estimated duration of 1,5 hours.

It will be a networking event that includes a variety of finger food (like canapes, sandwiches, hot finger food, and desserts) together with a selection of wine, beer and soft drinks which will be served to the participants in an informal way.

**Welcome reception is complimentary and free for all registered conference participants.  
Please be sure to have your name badge with you.**

Tickets for accompanying and/or not registered persons can be purchased from the conference registration desk. Tickets for welcome reception cost 25 euros.

**Thursday 24/9/2026**

**08:30 - 15:15 Registration**

**09:00 - 10:00**

**Session 11, Keynote 2:** "From the Optimization of Nonlinear Multivariable Functions to the Training of Artificial Neural Networks and the Large Language Models"

Chair: Prof. Ilias Maglogiannis

**Keynote Speaker: Prof. Vassilis Plagianakos**

*Department of Computer Science and Biomedical Informatics University of Thessaly,  
Greece*

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**10:00 - 11:15**

**Session 12, ICCCI: EVAL** ( Evaluation Metrics, Benchmarks & Human-Centered Design Resources )

Chair: Prof. Georgios Evangelidis

Transforming Datasets to Requested Complexity with Projection-based Many-Objective Genetic Algorithm

*Joanna Komorniczak*

Controlling Variance Suppression in Multidimensional Code-Quality Scoring: Alternative Reward Functions within the Prismatrix Framework

*Marcin Kawalerowicz, Marcin Pietranik*

GarmentSketch: Large-scale Sketch-to-Fashion Benchmark

*Duong-Duy-Khang Bui, Minh-Tan Pham, Tam V. Nguyen, Minh-Triet Tran, Trung-Nghia Le*

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**10:00 - 11:15**

**Session 13, ICCCI: CVMI** ( Computer Vision, Medical Imaging & Multimodal Perception )

Chair: Dr. Julian Szymanski

Diverse Image Priors for Black-box Data-free Knowledge Distillation

*Tri Nhan Vo, Dang Nguyen, Trung Le, Kien Do, Sunil Gupta*

Transfer of Learning Processes and Models in the Detection Process of Animals in Crowded Herds

*Kazimierz Choroś, Farid Kazimov*

Learning to Fuse Multi-Enhanced YOLO26n Predictions via MLP for Improved Landmark Recognition

*Musaev Javokhir, Akrom Abdinabiev, Yeong-Seok Seo, Dosam Hwang*

A BEMD-Based Quaternion Filtering Approach Sharp-to-Soft Kernel CT Image Conversion

*Mahmoud Nasr, Jan K. Argasiński, Krzysztof Brzostowski, Adam Piórkowski*

Security and Robustness Analysis of Deep Arabic Traffic Text Detection in Intelligent Transportation Systems

*Housseem Turki, Monji Kherallah*

ResVSS-UNet: A ResNet-Vision State Space Decoder for Efficient Medical Image Segmentation

*Jose Guadalupe Esparza, Nghia Duong-Trung*

Benchmarking Deep Learning and Transformer-based Models for ECG Signal Imputation

*Van Hua, Gia Bao Lam, Quoc Danh Tran, Phu Pham, Binh Nguyen*

A Multimodal MRI-Based Deep Learning Method for Automated PI-RADS Assessment in Prostate Cancer

*Przemysław Sipa, Kacper Szmergala, Wojciech Majchrowski, Bogumila Hnatkowska, Adrianna Kozierekiewicz*

Decomposition-Guided Curvelet Thresholding for Sharp-to-Soft CT Kernel Conversion

*Mahmoud Nasr, Jan K. Argasiński, Krzysztof Brzostowski, Adam Piórkowski*

Vision–Language Representation Learning for Real Estate Image Tagging with Open-Set Recognition

*Khoa Nguyen, Vo Hoai Viet*

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**10:00 - 11:15**

**Session 14, ICCCI: MLRWD - LLMVLM** ( Machine Learning in Real-World Data - LLM and VLM in Collective Intelligence )

Chair: Dr. Assel Ospan

Short survey on multi-label setups for CNNs

*Tomasz Orczyk, Piotr Porwik, Krzysztof Wrobel*

Personalized Alignment of Large Language Models

*Stanisław Woźniak, Bartłomiej Koptyra, Jakub Gurgul, Jan Kocoń, Przemysław Kazienko*

Evaluating the Impact of Knowledge Distillation and Weight Quantization on Transformer-Based Model Optimization for the Kazakh Language

*Assel Ospan, Madina Mansurova, Aisha Sailau, Nazerke Galymkyzy, Akniet Kalzhan*

Human Mobility Prediction via Entropy-Based Weighting of Personal and Peer Mobility Patterns

*Youcef Benali, Soraya Ait Chellouche, Sabrina Bouzidi-Hassini*

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**11:45 - 13:00**

**Session 15, ICCCI: RAI** ( Responsible, Explainable & Trustworthy AI )

Chair: Prof. Przybyła-kasperek Małgorzata

HalluBrainScan: Model-agnostic Reference-free Activation-based LLM Hallucination Detection

*Teddy Ferdinan, Jan Kocoń, Przemysław Kazienko*

openCert for AI Act: A Capability-Based Framework for Trustworthy AI in Critical Infrastructures

*Manuel Israel del Pino Ochoa*

A Harm-Centric Operationalisation of Hateful Speech for Moderation and Education

*Ewelina Gajewska, Maciej Kulik, Katarzyna Budzynska, Łukasz Kobylński, Andrea Laus, Bartłomiej Skowron*

Measuring Fairness Metrics Robustness Through Collective Ranking Aggregation Under Controlled Bias Injections

*Israel del Pino, Manuel Méndez, Mercedes Merayo*

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**11:45 - 13:00**

**Session 16, ICCCI: MLRWD - LLMVLM - Doctoral** ( Machine Learning in Real-World Data - LLM and VLM in Collective Intelligence - Doctoral )

Chair: Prof. Bogumiła Hnatkowska

MeReader: An Offline, Privacy-Preserving, Progress-Aware AI Assistant for Narrative eBook Reading

*Mohammed Efaz, Udo Bub, Itilekha Podder*

A Reproducible Baseline for Forecasting and Cross-Checking Ukraine's Reconstruction Needs Using RDNA Data

*Piotr Porwik, Krzysztof Wrobel, Tomasz Orczyk*

Drift Speed Matters: Chunk Size, Drift Length and Performance of Batch-Based Drift Detectors – A Case Study

*Benjamin Mensah Dadzie, Piotr Porwik*

When AI Agents Rewrite Their Own Rules: Power-Seeking in Endogenously Changing Environments

*Ondrej Rozinek*

Integer Programming for ELT Execution Optimization

*Tomas Dokoupil, Monika Borkovcová*

Residual Regressor Plug-in for Visual Point Tracking

*Adrian-Pavel Măduța, Tudor-Alexandru Ileni, Adrian-Sergiu Dărbănt*

Accuracy Is Not Enough: Counterfactual Robustness Analysis for Vietnamese Hallucination Detection

*Tuan-Huy Nguyen, Tan-Nguyen Ngo, Quang-Anh-Kiet Tran, Huynh-Dai-Nhan Tran, Manh-Hung Trinh, Hoang-Anh Pham*

A Controller-Mediated Multi-Agent LLM Framework for Real-Time Digital Banking Workflow Execution

*Md Easin Arafat, Sourav Saha, Shamim Rahim Refat, Tamas Orosz*

Surrogate Modeling for Error Estimation in Time-Series Regression with CatBoost

*Dawid Bqba, Przemysław Juszczuk, Jan Kozak*

Identifying Social Networks on X: A Multi-Network Approach for Inference of Community Structures

*Jose Fabio Ribeiro Bezerra, Adrianna Kozierekiewicz, Marcin Pietranik, Ngoc Thanh Nguyen*

Graph-Based Representation and Weighted Clique Cover Strategy for Disinformation Detection

*Barbara Probiez, Jan Kozak*

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**11:45 - 13:00**

**Session 17, ICCCI: CSDMO** ( Cooperative Strategies for Decision Making and Optimization )

Chair: Prof. Piotr Jędrzejowicz

The Hive Mind in Silicon: Situating Large Language Models within Computational Collective Intelligence

*Piotr Jędrzejowicz*

A Hybrid Over- and Under-Sampling Approach for Synthetic Data Generation in Imbalanced Network Security Datasets

*Marteusz Dampc, Ireneusz Czarnowski*

Structural Analysis of Co-authorship Networks: Communities and Key Actors

*Dariusz Barbucha, Paweł Szyman*

A Conjunctive-Disjunctive Aggregation Framework for Asymmetric Interval Numbers

*Andrii Shekhovtsov, Wojciech Sałabun*

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**14:00 - 15:15**

**Session 18, ICCCI: AML** ( Advanced Machine Learning: Data-Driven Methods for Explainable and Adaptive Intelligence )

Chair: Dr. Tomasz Orczyk

Reduction through Homogeneous Clustering with k-means++ Seeding

*Ioannis Mylonas, Stefanos Ougiaroglou, Georgios Evangelidis*

A Systematic Explainability Framework for Hybrid Spatio-Temporal Models based on Integrated Gradients

*Manuel Méndez, Manuel Núñez, Juan Manuel Vara*

When Interpretable Parameters Fail to Explain: Evidence from the Rescorla–Wagner Model

*Jarosław Drapała, Mateusz Zolisz, Paweł Wachel*

Clinical-Inspired Multi-View Retrieval with Spatial Residual Attention and Concept-Driven Explainability in Medical Images

*Tu Nguyen, Long Pham, Vo Hoai Viet*

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**14:00 - 15:15**

**Session 19, ICCCI: APADS**

Chair: Dr. Anastasios Panagiotis Psathas

R2Net : Recurrent Residual Network Model for Time Series Prediction

*Arwansyah Arwansyah, Bijay Prasad Jaysawal, Jen-Wei Huang*

Outflow Probability Forecasting Based on Inflow Series Encoding and Outflow Relation Graph Convolutional Network

*Chun-Wei Liang, Shiou-Chi Li, Jen-Wei Huang*

Market Timing via Structural Transition Detection in the Options Implied Volatility Surface

*Yi-Chieh Sung, Shiou-Chi Li, Jen-Wei Huang*

Timeseries Dataset Similarity Measurement Using Adversarially Learned Discriminator

*Andrzej Podobinski, Jarosław A. Chudziak*

Interpretable Software Defect Prediction with Ensemble Models across Static and Process Metrics

*Dominik Łysak, Małgorzata Przybyła-Kasperek*

A Rule-Based Decision Support System for Selecting Government Procurement Methods to Enhance Regulatory Compliance

*Fatimatuz Zahro, Ford Lumban Gaol, Tokuro Matsuo, Heldi Yudiyatna*

Latency-Constrained Production Architecture for Package Holiday Recommendation

*Karolina Selwon, Julian Szymanski*

Effort Estimate Correction Based on Cross-Team Implementation Data

*Bogumila Hnatkowska, Radosław Grębski*

Two-dimensional Pheromone in ACO for Optimization of Non-transport Problems

*Kacper Slusarczyk, Grazyna Starzec, Mateusz Starzec, Tomasz Pełech-Pilichowski, Grzegorz Migut, Małgorzata Zajęcka, Marek Kisiel-Dorohinicki, Aleksander Byrski*

When Augmentation Is Not Enough: Rethinking Robustness in Semi-Supervised Semantic Segmentation

*Nhu-Y Tran-Van, Le Kim-Hung*

A Novel Hybrid Ensemble Regression Framework for Residential Property Price Prediction in Athens Using Optimized Machine Learning Models

*Anastasios Panagiotis Psathas, Antonios Papaleonidas, Konstantinos Lykostratis, Lazaros Iliadis*

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**14:00 - 15:15**

**Session 20, ICCCI: RW-BIOCOMP** ( Real-World Applications of Bio-Inspired Computations )

Chair: Márk Domonkos

Macroscopic Design of Swarms with Collective State Machines

*Gianluca Aguzzi, Giorgio Audrito, Roberto Girau, Gianluca Torta, Roberto Casadei*

Lesion of Cranial Nerves by Smoking During Pregnancy Leading to Strabismus: a Multi-Adaptive Causal AI Analysis of the Underlying Epigenetic Mechanisms

*Guy Kornblum, Jan Treur*

Optimizing Multi-League Sports Scheduling Using a Genetic Algorithm

*Milan Bernhardt, Balázs Nagy*

Evaluating the Robustness of Homogeneous Multi-Agent PPO Algorithm Against Observation Perturbations in Cooperative Multi-Agent Tasks

*Zoltán Barta, Balázs Nagy, László Gulyás*

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**16:30 – 22:00**

**Excursion / Conference Dinner & Party**

**16:45 – 17:00** Boarding at busses and departure for the archeological site of Knossos

**17:30** Guided tour at Knossos

**18:45** Departure for “Rodakinies” restaurant at “Ano Arhanes” picturesque village

**19:30** Dinner with traditional Greek and Cretan dishes, drinks, and live music with traditional dancing.

**22:00** Departure for Heraklion city

The first part of the event is dedicated to a visit to the archaeological site of Knossos, one of the most important and iconic archaeological sites in Greece. Closely associated with the Minoan civilization and the legendary King Minos, Knossos offers visitors a unique opportunity to explore the remains of a remarkable ancient palace complex and discover the history, mythology, and cultural heritage of one of Europe’s earliest advanced civilizations.

The excursion will begin at around 17:00 with boarding on the conference buses, which will take participants directly to the archaeological site. There, professional guides will lead a 60–90-minute guided tour, presenting the site’s most important monuments, findings, and fascinating history.

After the visit, we will board the buses once again and continue to “Ano Arhanes”, a picturesque village where the Conference Dinner & Party will take place. In a warm and festive atmosphere, participants will enjoy a traditional dinner featuring a rich selection of Greek and Cretan dishes, accompanied by a wide variety of drinks, including wine, beer, soft drinks, and, of course, authentic Cretan raki / tsikoudia.

The evening will be further enriched by a local music and dance group, who will not only entertain us with live singing and traditional dances, but will also invite participants to join in and experience the spirit of Cretan celebration firsthand.

The Excursion / Conference Dinner & Party is complimentary and free of charge for all participants holding a conference registration. Please make sure to have your name badge with you. Admission to the archaeological site of Knossos is also included.

Tickets for accompanying persons and non-registered guests may be purchased at the conference registration desk. The ticket price for the Excursion / Conference Dinner & Party is €50. Please note that this price does not include admission to the archaeological site of

Knossos; accompanying persons and non-registered guests will need to purchase their Knossos entrance tickets separately.

\*The schedule may be subject to minor adjustments due to traffic or weather conditions. Please check the conference announcement board for the latest updates.

**Friday 25/9/2026**

**08:30 - 16:00 Registration**

**09:00 - 10:00**

**Session 21, Keynote 3: "Quantum Discrete Optimization"**

Chair: Prof. Plagianakos Vassilis

**Keynote Speaker: Prof. Wojciech Bożejko**

*Head of the Department of Control Systems Wrocław University of Science and Technology, Poland*

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**10:30 - 11:30**

**Session 22, Keynote 4: "The convergence of Computational Intelligence and eHealth for improving the quality of life"**

Chair: Prof. Andrzej Kucharski

**Keynote Speaker: Prof. Ilias Maglogiannis**

*Director of Computational Biomedicine Laboratory University of Piraeus, Greece*

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**12:00 - 13:30**

**Session 23, ICCCI: 3DVG ( 3D Vision, Gaussian Splatting & Neural Rendering )**

Chair: Prof. Agnieszka Wosiak

FaceParts: Segmentation and Editing of Gaussian Splatting Avatars

*Tymoteusz Zapała, Julia Farganus, Dominik Galus, Mikołaj Czachorowski, Piotr Syga, Przemysław Spurek*

Learning Representations from 3D Gaussian Splats

*Julia Farganus, Krzysztof Żurawicki, Arkadiusz Gawęł, Weronika Jakubowska, Halina Kwaśnicka*

Group-Equivariant Occupancy Networks for Single-View 3D Reconstruction

*Quan Nguyen, Vinh Phung, Vo Hoai Viet*

OmniDP: A General Interface For Dynamic 3DGS Reconstruction from Omnidirectional Sequences

*Hieu Nguyen, Vo Hoai Viet*

Toward 360-Degree Indoor Panorama Editing via Tuning-Free Diffusion Model with Refocusing Cross-Attention

*Dinh-Khoi Vo, Nhut-Thanh Le-Hinh, Viet-Tham Huynh, Tam V. Nguyen, Minh-Triet Tran, Trung-Nghia Le*

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**12:00 - 13:30**

**Session 24, ICCCI: QC ( Quantum Computing )**

Chair: Prof. Wojciech Bozejko

Dual-Quantum Vowel Recognition

*Michał Jaroszczuk, Mateusz Kuchatski, Radosław Idzikowski, Mariusz Uchronski*

Exact routing algorithm for quantum circuit compilation for star architectures

*Andrzej Gnatowski, Jarosław Rudy, Teodor Niżyński, Krzysztof Święcicki*

Volumetric Benchmarking of IQM-Spark: Parity-Preserving Quantum Volume and Compilation Overheads in Odra 5

*Andrzej Gnatowski, Jarosław Rudy, Marcin Rudziński, Rafał Bistrón, Krzysztof Święcicki, Teodor Niżyński, Wojciech Bozejko, Karol Życzkowski*

Autoencoder-Based Hybrid Quantum Classification of MNIST on ODRA-5

*Radosław Idzikowski, Małgorzata Jędruszek, Mateusz Kucharski, Konrad Pempera*

Performance Analysis of the HHL Algorithm on the Odra 5 Quantum Computer

*Andrzej Kucharski, Mateusz Kucharski*

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**12:00 - 13:30**

**Session 25, ICCCI: IMIDH ( Intelligent Medical Informatics and Digital Health: AI, Decision Support, and Data Integration )**

Chair: Dr. Sebastian-Aurelian Stefaniga

Label-Attractor Contrastive Network: A Framework for Centroid-Driven Histology Samples

*Diogen Babuc, Teodor-Florin Fortiș*

Deep Learning-Based Assessment of Mitral Regurgitation: Leveraging Multivariate Interdependencies in Echocardiographic Sequences

*Adrian Bubuianu, Rares Ancuta, Patricia Boros, Teodora Avram, Dan Blendea, Laura Diosan*

A benchmark of three local, model agnostic XAI methods applied to healthcare

*Samuel Faluyi, Yousra Chabchoub, Maurras Togbe, Jérémie Sublime*

AwAlprop: A Mixed AI and Geometric Constrained Propagation for CT Airway Segmentation

*Usman Musa Nuhu, Pierre-Yves Brillet, Catalin Fetita, Maria Trocan*

A lightweight approach for improving VLM accuracy for medical usage

*Mihai Andrei Gherghinescu, Todor Ivascu, Sebastian Stefaniga, Viorel Negru*

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**14:30 - 16:00**

**Session 26, ICCCI: PRED** ( Predictive Analytics, Recommendation & Collective Behavior )

Chair: Dr. Jarosław Drapała

A Comparative Study of Ensemble Machine Learning and Spatiotemporal Deep Learning for Vehicle Theft Location Prediction

*Khiraam Singh, Matthew Lee Nicholls, Edgar Jembere*

Estimating Current h-Index using Explainable Machine Learning and Diverse Bibliometric Features

*Malak Ajram, Abbass Nasser, Danielle Khalife, Chamseddine Zaki, Ammar Kheirbek, Maria Trocan*

Sentiment drift and bias of agent collectives

*Marcin Maleszka*

User Dynamics Analysis in Trust Recommendation Systems

*Bernadetta Maleszka*

A Multimodal BiLSTM Model for Predicting Learner Question Performance Using Facial and Tabular Data

*Uoc Tran Van, Binh Hoang Tieu, Vu Thi Xuyen, Dang Hung Tran*

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**14:30 - 16:00**

**Session 27, ICCCI: VIR** ( Visual Recognition, Inspection & Document Understanding )

Chair: Prof. Núñez Manuel

Comparative Deep Learning Analysis for Asphalt Damage Detection Using Real and Range Imaging

*Andrei-Gabriel Nascu, Cristina Popirlan, Irina-Valentina Tudor, Daniela Danciulescu, Mihaela Colhon, Cristina-Mihaela Tudorache, Constantin-Cristian Dinu, Gabriel Stoian, Claudiu-Ionut Popirlan*

A Comparative Study of Attention Mechanisms for Lightweight Person Re-Identification

*Thanh-Sach Le, Hai-Nam Vo-Hoang*

WSCL-2HTR: Weight-Sensitive Continual Learning for Historical Handwritten Text Recognition

*Asma Kharrat, Fadoua Drira, Bertrand Kerautret, Frank Lebourgeois*

Document Authenticity Verification via Latent Representation Analysis

*Mateusz Janik, Jakub Nowak, Rafał Scherer, Aneta Maćkiewicz, Marcin Korytkowski,  
Paweł Drozda*

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**14:30 - 16:00**

**Session 28, ICCCI: MI-RDP ( Medical Imaging & Robust Dense Prediction )**

Chair: Dr. Antonios Papaleonidas

DS<sup>2</sup>Net: Joint Depth and Segmentation Learning with Synthetic Supervision

*Chanh-Tri Cao, Trong-Duc Le, Dang-Khanh Mai-Ton, Thanh-Sach Le*

Boundary- and Topology-Aware Learning for Abdominal CT Segmentation via Gated UNETR++  
and Sobel-Weighted Cross Entropy

*Thanh-Sach Le, Thanh-Tam Huynh*

From Lab to Clinic: Toward Deployment-Ready Graph Neural Networks for EEG-Based  
Neurological Diagnosis

*Fatma Ben Abdallah, Rahma Fourati, Ali Wali*

Uncertainty-Aware Bayesian ConvNeXt for BreastMNIST Classification Under Limited Data  
Conditions

*Insaf Chaibi, Hasna Njah, Salma Jamoussi, Yassine Ben Ayed*

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**16:00-16:30 Closing Ceremony**