18th INTERNATIONAL CONFERENCE
on
ELECTRONICS, COMPUTERS
and ARTIFICIAL INTELLIGENCE
ECAI 2026, July 2– July 3, 2026

PROGRAM

hosted by
POLITEHNICA UNIVERSITY OF BUCHAREST,
Bucharest, Romania:
- Faculty of Transports

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Proceedings' Editor: Nicu Bizon, Mihai Oproescu

Text processing: Mihai Oproescu, Vlad Ionut Oproescu, Adriana-Gabriela Schiopu

Conference web site: http://ecai.ro/ ; E-mail: contact@ecai.ro ;
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ECAI 2026, July 2– July 3, 2026

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PROGRAM

Thursday, July 2, 2026

July 2, 8:00-8:50, conference desk
Registration of the participants

July 2, 9:00-9:40, OFFICIAL OPENING

Aula**, keynote room**

09:00-09:40 ***Welcome and Opening Addresses***

09:00-09:05 Welcome message of Nicu BIZON,
CHAIR of ECAI conference, POLITEHNICA University of Bucharest

09:05-09:10 Welcome message of Mihnea Cosmin COSTOIU
RECTOR of the POLITEHNICA UNIVERSITY OF BUCHAREST

09:10-09:15 Welcome message of Ilona COSTEA
DEAN of the Faculty of Transports, POLITEHNICA University of Bucharest

09:15-09:20 Welcome message of Laurentiu-Mihai IONESCU
DEAN of the Faculty of Electronics, Telecommunications and Information Technology, POLITEHNICA UNIVERSITY OF BUCHAREST

09:20-09:25 Welcome message of Grigore STAMATESCU
CHAIR of the Romanian IEEE section

09:25-09:30 Welcome message of Frede BLAABJERG,
HONORARY CHAIR of the ECAI conference

09:30-09:40 Welcome message of Partners and Sponsors

July 2, 09:40-11:00, ECAI KEYNOTE LECTURES – I

Location: Room 1

09:40	**Babak Nahid-Mobarakeh,** *Transportation systems: to electrify or not to electrify, is that the Question*
10:20	**Radu-Emil Precup,** *Model-based and model-free fuzzy control of servo systems*

11:00-11:30 Coffee break; Discussions and Brokerage events

Round Tables

Scientific Communications Session of the C.R.I.F.S.T. - Romanian Academy (Arges Branch)
11:40 – 13:45 Chair: Florentina Magda Enescu Location: Room 2

Improving the Fuel Cell Hybrid Electric Vehicle Drivetrain by Implementing Novel Optimal Real-Time Power Management Strategy
11:40 – 12:30 Chair: Madalin Silion and George Suciu Location: Room 3

Electromagnetic shielding tutorial in Comsol Multiphysics and Matlab
11:40 – 13:45 Chair: Dumitru Cazacu Location: Room 4

July 2, 11:40-13:45, Visit to CAMPUS (Advanced Research Center for Innovative Materials, Products and Processes)

14:00-15:30 Lunch

15:30-18:00 Session 4A: Artificial Intelligence & Machine Learning
Chair: Vasile-Gabriel Iana Location: ROOM 1

15:30	Calin Sandu and Racuciu Ciprian *Continuous Authentication Using Behavioral Biometrics: A Focused Review and Illustrative Implementation of Keystroke Dynamics* ***PRESENTER: Calin Sandu***
15:45	Felix Koba and Stevan Cakic *Query-Conditioned Closure-Field Writing Under a Single-Read Constraint* ***PRESENTER: Felix Koba***
16:00	Stoyan Nikolov, Ensiye Kiyamousavi, Boris Kraychev and Vassil Vassilev *Incremental Causal Discovery in Time Series Using Transformer Models* ***PRESENTER: Stoyan Nikolov***
16:15	Arbër Ceni and Alda Kika *Intent-Driven GraphRAG for LLM-Based Analysis of Online Conversations* ***PRESENTER: Arbër Ceni***
16:30	Cristina-Ioana Lupescu and Iulian Aciobanitei *Predicting Flight Delays Without Weather Data: A Cost-Sensitive CatBoost Approach with Temporal Undersampling* ***PRESENTER: Cristina-Ioana Lupescu***
16:45	Albert-Sebastian Constantin and Victor-Emil Neagoe *A New Approach to Facial Emotion Recognition using an Ensemble of Deep CNN Classifiers followed by Random Forest Fusion* ***PRESENTER: Albert-Sebastian Constantin***
17:00	Edel Abreu Hernández, Rafael Martinez Estévez, Asday Savón Berenguer and Sorin-Aurel Moraru *The Impact of the Dataset on Fine-Tuning Multilingual BERT for Multiclass Classification* ***PRESENTER: Edel Abreu Hernández***

17:15	Mohammed Z.M. Shat *Personalized Ballot Navigation Using Machine Learning for Visually Impaired Voters*
17:30	Ahmed Al-Taweel, Ionut Iacob and Marcel Ilie *A Random Forest Based Framework for Turbulence Anisotropy using Pope's Tensor Formulation* ***PRESENTER: Ionut Iacob***
17:45	Klesti Hoxha and Olti Qirici *From Entity Mentions to Tone: An LLM-Based Pipeline for Media Bias Analysis* ***PRESENTER: Klesti Hoxha***

15:30-18:00 Session 4B: Robotics, Autonomous Systems & UAV
Chair: Radu-Emil Precup
Location: ROOM 2

15:30	Radu-Emil Precup, Robert-Catalin Diaconu, Raul-Cristian Roman and Elena-Lorena Hedrea *Direct Iterative Feedback Tuning of Anti-Windup Fuzzy Control of Small Rescue Mobile Robot*
15:45	Radu-Emil Precup, Constantin-Laurentiu Nitulescu, Raul-Cristian Roman and Elena-Lorena Hedrea *Iterative Feedback Tuning of Anti-Windup PI Fuzzy Control of Small Autonomous Electric Car*
16:00	Marius Petreanu, Laura Patrasc-Luta and Ioana Corina Bogdan *Real-Time Hand-Gesture Control of a Robotic Arm Using Edge-AI Acceleration: A Surgical-Inspired Prototype* ***PRESENTER: Marius Petreanu***
16:15	Andrei Prica, Vlad Mihai Radu and Ioana Corina Bogdan *Design and Implementation of a Smart Electrical Protection Device* ***PRESENTER: Andrei Prica***
16:30	Adrian Virgil Ganea, Fabian Pavel Velicea and Ioana Corina Bogdan *Design of A Solar Tracking Smart House for Enhanced Energy Efficiency* ***PRESENTER: Adrian Virgil Ganea***
16:45	Catalin Buse and Simona Stoica *An Automated Modular System for Unannounced Metrological Verification of Time and Distance Parameters in Road Transport, with Robotic Assistance and IoT Functionalities* ***PRESENTER: Catalin Buse***
17:00	Yen-Fang Li, Jun-Hao Guo and Yong-Bin Wu *A multi-axis simultaneous motion controller design for a 6-axis articulated manipulator* ***PRESENTER: Yen-Fang Li***
17:15	Ahmed Bencherqui, Hamza Tahiri, Mohammed Tamimi, Mohamed Kmich, Mohamed Amine Tahiri and Mhamed Sayyouri *Design and Implementation of a Parallel Secure Medical Image Compression-Encryption Scheme on Embedded Cluster Systems* ***PRESENTER: Ahmed Bencherqui***
17:30	Hamza Tahiri, Ahmed Bencherqui, Mohamed Amine Tahiri and Mhamed Sayyouri *Intelligent Strategies for 3D UAV Navigation in Complex Environments* ***PRESENTER: Hamza Tahiri***

15:30-18:00 Session 4C: Power Electronics & Electrical Drives
Chair: Youness El Mourabit
Location: ROOM 3

15:30	Suliman Badour, Martin Novák, Zdeněk Novák and Jaroslav Novák *Three Level GaN Inverter for a Residential Heat-Pump* ***PRESENTER: Suliman Badour***
15:45	Suliman Badour and Martin Novák *Calibrated Multi-Sensor Models for Early Defect Forecasting in Extrusion 3D Printing* ***PRESENTER: Suliman Badour***
16:00	Suliman Badour, Martin Novák, Zdeněk Novák and Jaroslav Novák *Tuning of LCL filter parameters for pulse rectifier* ***PRESENTER: Suliman Badour***
16:15	Oleg Sivkov and Jaroslav Novák *Computational Analysis of Output Voltage Waveforms in Multiphase Inverters*

	PRESENTER: Oleg Sivkov
16:30	Cosmin Bucur and Paul Burlacu *Design and Real-Time Implementation of an active disturbance rejection controller for PMSM motor speed regulation* ***PRESENTER: Cosmin Bucur***
16:45	Hamza Alrajoubi and Selim Oncu *A Multiple-Band Search Incremental Conductance MPPT Controlled BLDC Motor-Driven Water Pump* ***PRESENTER: Hamza Alrajoubi***
17:00	Eduard-Dimitrie-Alexandru Vulpe and Claudius Dan *MATLAB/Simulink® SEPIC DC/DC converters operating in both CCM and DCM average models implementations*
17:15	Alexandra Buzducea, Florin Enache, Emil Cazacu and Georgiana Subașu *Non-intrusive load monitoring: identification based on genetic algorithm optimization* ***PRESENTER: Alexandra Buzducea***
17:30	Hadi Bayary *Speed Control of Six-phase Asymmetrical IPMSM Using Fuzzy Fast Terminal Sliding Mode Control*

15:30-18:00 Session 4D: Energy Systems
Chair: Badre Bossoufi
Location: ROOM 4

15:30	Hanane Tasmant, Badre Bossoufi, Chakib Alaoui, Mihai Oproescu and Farah Echiheb *Grid-Connected DC Microgrid using FSM control in MATLAB/Simulink* ***PRESENTER: Hanane Tasmant***
15:45	Salima Handa, Yassine Chaibi, Zakaria Chalh and Badr Elkari *Impact of Photovoltaic Module Technology on the Solar-to-Hydrogen Efficiency of a PV-Powered PEM Electrolyzer System* ***PRESENTER: Salima Handa***
16:00	Zineb Tadlaoui, Badr El Kari, Yassine Chaibi, Mohamed Benslimane and Zakaria Chalh *Enhancing Thermal Performance Prediction of PV/T Air Collectors Through Ensemble Machine Learning and Feature Importance Analysis* ***PRESENTER: Zineb Tadlaoui***
16:15	Sohayla El Ouardi, Mourad Yessef, Mohamed Benslimane, Zakaria Chalh and Badr El Kari *Neural PI-Based Direct Power Control for DFIG Wind Energy Conversion Systems* ***PRESENTER: Sohayla El Ouardi***
16:30	Nilam El Amrani, Manal En-Najidi, Badr El Kari, Yassine Chaibi and Zakaria Chalh *A vision-based AI robotic system for worker safety monitoring in data center environments* ***PRESENTER: Nilam El Amrani***
16:45	Yassine Boukhali, Sebastian-Alexandru Dragusin, Nicu Bizon, Mohammed Nabil Kabbaj and Mohammed Benbrahim *A Survey on Cybersecurity for Smart Agricultural IoT: Challenges, Defences, and Edge Anomaly Detection* ***PRESENTER: Yassine Boukhali***
17:00	Zineb Kadiri, Jérôme Bosche, Abdelhamid Rabhi and Badre Bossoufi *ANN and ANFIS-Based MPPT Control for PMSG Wind Turbine: A Comparative Study with Conventional PI Control* ***PRESENTER: Zineb Kadiri***

15:30-18:00 Session 4E: Embedded Systems, FPGA & IoT
Chair: Rachid El Alami
Location: ROOM 5

15:30	Andreea Daniela Sirbu, Teodor Iustinian Paunescu, Gabriel Predusca, Liana Denisa Circiumarescu, Nicoleta Angelescu and Dan Constantin Puchianu *Performance-Oriented Evaluation of Long Term Evolution Networks for Heterogeneous Applications Using NetSim*

15:45	Maria Carmen Turea, Gabriel Predusca, Liana Denisa Circiumarescu, Nicoleta Angelescu and Dan Constantin Puchianu *An Edge-of-Things Multisensor System for Real-Time Home Safety Monitoring Using ESP32 and Home Assistant*
16:00	Andrei Frâncu, Gabriel Predusca, Denisa Circiumarescu, Angelescu Nicoleta and Puchianu Dan Constantin *Impact of Botnet DDoS Attacks on UDP and TCP Performance in IoT Networks*
16:15	Mike Teodorescu and Horia-Nicolai Teodorescu *Pseudo-Coincidences of Independent Random Systems and Applications in Audio Security* ***PRESENTER: Horia-Nicolai Teodorescu***
16:30	Mironela Pirnau, Iustin Priescu, Daniela Joita, Catalina Mihaela Priescu and Claudiu Pirnau *Automated Multiclass IoT Network Traffic Classification Using AutoAI* ***PRESENTER: Claudiu Pirnau***
16:45	Bogdan Burtea, Camelia Florea, Radu Stefan Simea, Mihaela Gordan, Ciprian Iacobescu and Gabriel Oltean *Weather-Aware Augmentation for Parking Slot Detection Using Vision-Language Image Editing* ***PRESENTER: Bogdan Burtea***
17:00	Stefan-Cristian Nutu, Iulian-Constantin Vizitiu and Cristian-Constantin Molder *Hybrid Convolutional Architecture for Robust Automatic Modulation Classification* ***PRESENTER: Stefan-Cristian Nutu***
17:15	Hilal Kaya, Sami Acik, Selahattin Kosunalp and Mehmet Baris Tabakcioglu *Throughput Performance Analysis of ALOHA and CSMA Protocols: Evaluating Variable Transmission Power under Structural Barriers and Human Interference* ***PRESENTER: Mehmet Baris Tabakcioglu***
17:30	Ayah Jarour *FedA11yB: Federated Context-Aware Accessibility for Youth Entertainment*
17:45	Shruti Shruti, Bhargav Appasani and Sasmita Pahadsingh *All Metal based Hexagonal Terahertz Metamaterial Absorber for Biomedical Applications* ***PRESENTER: Shruti Shruti***

15:30-18:00 Session 4F: Poster Session
Chairs: Grazia Lo Sciuto and Gabriela Schiopu
Location: POSTER HALL

Grazia Lo Sciuto, Szymon Skupien, Pawel Kowol, Giacomo Capizzi and Salvo Coco
Equivalent electrical circuit design of Electromagnetic Diaphragm Pump
PRESENTER: Grazia Lo Sciuto

Maria-Elena Stanciu, Mihai Oproescu and Rodica-Mihaela Teodorescu
Design and Implementation of a Hybrid AI Mobile Application for Motorcycle Weather Decision Support
PRESENTER: Maria-Elena Stanciu

Mihai Oproescu, Victor Florin Burcea, Gabriel-Vasile Iana, Ioan Lita, Valentin Alexandru Stan, Gheorghe Nistor, Ovidiu-Constantin Novac and Cornelia-Mihaela Novac
Design Considerations for Obtaining Ferritic Geopolymers for Magnetic Flux Routing and Concentration in WPT Systems
PRESENTER: Mihai Oproescu

Alina-Maria Iancu, Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Ioan Lita, Valentin Alexandru Stan and Gabriel-Vasile Iana
IoT-Based Color Detection Platform Using TCS3200 Sensor and Stepper Motor Positioning System
PRESENTER: Ioan Lita

Ioan Cristian Hoarca, Florin-Alexandru Lungu, Mihai Serbanescu and Florentina Magda Enescu
Effects of Operating Temperature on Efficiency in High-Pressure Proton Exchange Membrane (PEM) Water Electrolyzers
PRESENTER: Florin-Alexandru Lungu

Florentina Magda Enescu, Ioan Cristian Hoarcă, Nicu Bizon and Valeriu Manuel Ionescu
SCADA System for Monitoring and Controlling Turbines Vibration in Hydropower Stations
PRESENTER: Ioan Cristian Hoarcă

Sebastian-Alexandru Dragusin, Nicu Bizon, Denisa Toma and Robert-Nicolae Bostinaru

Cybersecurity in Embedded Systems: A Platform-Centric Review from Microcontrollers to Edge AI Devices
PRESENTER: Sebastian-Alexandru Dragusin

Laura-Christina Simionescu Dobrescu, Ovidiu-Constantin Novac, Valentin Alexandru Stan, Cornelia-Mihaela Novac and Razvan Andrei Gheorghiu
Cyber Resilience Assessment of Smart Port Infrastructures through Secure Handshake Protocols and Supersingular Isogeny-Based Post-Quantum Cryptography
PRESENTER: Ovidiu-Constantin Novac

Sebastian-Alexandru Dragusin, Nicu Bizon and Rodica-Mihaela Teodorescu
A Machine Learning Framework for Malicious URL Detection with LabVIEW-Based Visualization of Phishing Attacks
PRESENTER: Sebastian-Alexandru Dragusin

Mariana Mirela Jătaru, Mădalin Ciprian Enescu, Nicu Bizon and Prantik Basak
Technology-Driven Agricultural Markets: Policy Challenges and Regulatory Frameworks in the Digital Era
PRESENTER: Mădalin Ciprian Enescu

Robert-Nicolae Bostinaru, Nicu Bizon, Sebastian-Alexandru Dragusin and Gabriel-Vasile Iana
A Reproducible End-to-End Software Pipeline for Acoustic Forest Fire Detection

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Robert-Nicolae Bostinaru, Nicu Bizon, Gabriel-Vasile Iana, Sebastian-Alexandru Dragusin and Denisa Toma
A Lightweight Signal-Processing Front-End for Acoustic Forest Fire Detection

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Ion Bostan, Sebastian-Alexandru Dragusin and Nicu Bizon
Investment Portfolio Optimization Using Machine Learning and Reinforcement Learning Methods
PRESENTER: Sebastian-Alexandru Dragusin

Marius Constantin Marica, Ionel Bostan, Nicu Bizon and Victor Constantin
Digital Twin for the Dynamic Modeling of a Linear Actuator with Servomotor
PRESENTER: Marius Constantin Marica

Ionel Bostan and Marius Constantin Marica
Design and Implementation of an Educational Hardware Module for Advanced Study of Richards Controllers
PRESENTER: Marius Constantin Marica

Catalin Frincu, Nicu Bizon, Marian Raducu and Mihai Oproescu
Analysis of defects in photovoltaic panels
PRESENTER: Catalin Frincu

Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Cornelia Emilia Gordan, Sorina-Gabriela Susman, Catalin-Daniel Morar, Marius Codrean and Gyongyi Bujdoso
Comparative Analysis of Modern Game Engines: Unity and Unreal Engine
PRESENTER: Ovidiu-Constantin Novac

Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Larisa-Maria Borlea, Laura Christiana Simionescu Dobrescu, Adrian-Alexandru Tulbure and Radu Sebesan
Comparison of Human and AI Code Review: A Case Study on Efficiency, Accuracy, and Practical Impact
PRESENTER: Ovidiu-Constantin Novac

Cornelia-Mihaela Novac, Marius Codrean, Mihaela Codrean, Anamaria Mihaela Codrean, Ovidiu-Constantin Novac and Mircea Danut Pantea
Optimizing Dual-Axis Solar Tracking: A Comparative Approach Between Simple LDR Control, PID, and Fuzzy Logic with Energy Management
PRESENTER: Ovidiu-Constantin Novac

Marius Constantin Marica, Nicu Bizon and Ionel Bostan
Pillar-Based Taxonomy of Enabling Technologies for Industry 5.0 Trade-Offs and Future Research Directions
PRESENTER: Marius Constantin Marica

Patricia Vivien Schifler, Deddy Gusman, Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Klára Czimre, Károly Teperics and Gyöngyi Bujdosó
The applicability of virtual reality in education: The educational potential of a customizable VR-based survival simulator
PRESENTER: Gyöngyi Bujdosó

Cristina Bica and Valentin Alexandru Stan
ITS-Based Reversible Lane Management on a Seasonal Coastal Road: Capacity Analysis for DN39 Eforie Nord, Romania

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Cristina Mihaela Bica and Valentin Alexandru Stan

Comparative Case Study on Vehicle Classification Using Inductive Loop Detectors and Camera-Based ANPR/MMR Systems

Denisa Toma, Nicu Bizon, Viorel Ionescu, Vasile Radu, Alexandru Nitu, Alexandra Jinga, Alexandru Toma, Sebastian Dragusin and Robert Bostinaru
Threshold Mechanical Stress for Reorientation of Localised Hydrides in Zr-2.5%Nb Alloy
PRESENTER: Denisa Toma

Mihai Bucurel, Sebastian-Alexandru Dragusin and Nicu Bizon
Intelligent VPN Traffic Analysis and Classification Framework on Raspberry Pi Using Machine Learning Techniques
PRESENTER: Sebastian-Alexandru Dragusin

Amalia Popa, Denisa Toma, Nicu Bizon, Livia Stoica, Mirela Matei and Gratiela Badulescu
Steam Generator Technologies and Design Approaches for Generation IV Lead-Cooled Fast Reactors

Andreea Maria Iordache, Ana Maria Nasture, Ramona Zgavarogea, Nadia Paun, Eusebiu Ilarian Ionete, Elena Carcadea and Constantin Nechita
Iso-Li: Development of an Integrated Robotic-Assisted Crystallization Platform for Lithium Salt Processing
PRESENTER: Andreea Maria Iordache

15:30-18:10 Session 4G: E-Session_1
Chair: Vincent Nyangaresi
Location: E-SESSION 1

15:30	Rushikesh Kakadiya, Keval Vora, Arpita Bambharoliya and Hitesh Kag *AI-Driven Cyber Defense for Malware and Ransomware Protection*
15:40	Saja B. Attallah, Dhiaa M. Abed, Dania H. Salman, Rusul K. Luaebee, Hussein M. Rashid, Rafif Aman Mahammed, Ali S. Abdulmohsin, Zaid Ameen Abduljabbar and Vincent Nyangaresi *Design and Development of a Wearable Multimodal Rehabilitation Belt for Chronic Low Back Pain* ***PRESENTER: Rusul K. Luaebee***
15:50	Enas Abood, Ali A. Yassin, Zaid Ameen Abduljabbar, Vincent Omollo Nyangaresi, Ali Hasan Ali and Abdulla J. Y. Aldarwish *Provably Ultra-Lightweight and Post-Quantum Biometric Mutual Authentication Protocol for Secure IOHT Environments* ***PRESENTER: Enas Abood***
16:00	Joshua Auko, Vincent Nyangaresi, Zaid Ameen Abduljabbar, Zaid Alaa Hussien, Ali Hasan Ali and Hamid Ali Abed Al-Asadi *An Efficient Authentication Protocol for Robust Security in Wireless Body Area Networks* ***PRESENTER: Joshua Auko***
16:10	Mustafa A. Al Sibahee, Zaid Alaa Hussien, Salah Mortada, Zaid Ameen Abduljabbar, Vincent Nyangaresi, Iman Qays Abduljaleel, Rafal Alaa Jabbar, Ali Hasan Ali and Ahmed Ali Ahmed *Fast Speech Encryption Technique Using Adjacency Matrix, Dynamic DNA Coding, and Quantum Chaos Map* ***PRESENTER: Iman Qays Abduljaleel***
16:20	Maha Kadhim Kabier, Zaid Ameen Abduljabbar, Hamid Ali Abed Al-Asadi, Vincent Nyangaresi, Mustafa A. Naser, Ali A. Yassin, Auhood M. Dayish, Ali Hasan Ali and Abdulla J. Y. Aldarwish *Prospects and Challenges of E-Government Adoption: A Comprehensive Literature Review* ***PRESENTER: Maha Kadhim Kabier***
16:30	Salim Sabah Bulbul, Mohammed Abdulridha Hussain, Zahraa Abdullah Ali, Zaid Ameen Abduljabbar, Vincent Nyangaresi, Hamid Ali Abed Al-Asadi, Ali Hasan Ali, Abdulla J. Y. Aldarwish and Zaid Alaa Hussien *Secure, Transparent Data Retrieval: A Review of Blockchain-Integrated Searchable Encryption in Cloud Environments* ***PRESENTER: Salim Sabah Bulbul***
16:40	Duaa A. Sultan, Ali A. Yassin, Zaid Ameen Abduljabbar, Vincent Omollo Nyangaresi, Ali Hasan Ali and Abdulla J. Y. Aldarwish *Towards an Efficient and Flexible Authentication Scheme in Education Environment: Students as the Case Study* ***PRESENTER: Duaa A. Sultan***
16:50	Hamid Al-Asad, Hawraa Al-Asadi, Zaid Abduljabbar, Ali Al-Asadi and Vincent Nyangaresi

	QoE-Driven Video Streaming Optimization in NDN-Based MANETs using E-Draft Protocol and Hybrid HHGWO Algorithm ***PRESENTER: Hawraa Al-Asadi***
17:00	Yousef Alasadi, Hamid Al-Asadi, Zaid Abduljabbar and Vincent Nyangaresi *Decentralized Financial Resilience in the Age of Hybrid Warfare: An On-Chain Data Analytics and Smart Contract Simulation Model for Predicting Banking Sector Collapse in Emerging Economies* ***PRESENTER: Hamid Al-Asadi***
17:10	Shahad Amjed Hamed, Khawla Hussein Ali, Zaid Ameen Abduljabbar and Vincent Nyangaresi *Siamese Mask R CNN: An Explainable Dual-Branch Framework for the Detection and Localisation of Image Splicing* ***PRESENTER: Shahad Amjed Hamed***
17:20	Ziadoon W. Salman, Ali A. Yassin, Hamid Ali Abed Al-Asadi, Zaid Ameen Abduljabbar, Vincent Omollo Nyangaresi and Ali Hasan Ali *A Review of Digital Educational Platforms Security: A Quantum and Artificial Intelligence-Based Approach* ***PRESENTER: Ziadoon W. Salman***
17:30	Saja B. Attallah, Abusnina M. Mukhtar, Rafif Aman Mahammed, Ruslan S. Naseef, Ali S. Abdulmohsin, Muntadher Alsabah, Zaid Ameen Abduljabbar, Ali Hasan Ali and Vincent Nyangaresi *An Interpretable FP-Growth-Based Association Rule Mining Framework for Multi-Source Obesity Risk Analysis Using NHANES Data* ***PRESENTER: Saja B. Attallah***
17:40	Saja B. Attallah, Rand A. Atta, Zaid Ameen Abduljabbar, Ruslan S. Naseef, Ali S. Abdulmohsin, Abusnina M. Mukhtar, Mustafa Noaman Kadhim, Bilal S. Rasheed and Vincent Omollo Nyangaresi *TinyML-based Wearable ECG Monitoring Systems: State-of-the-Art Survey on Architectures, Optimizations, and Deployment Challenges towards Future Directions* ***PRESENTER: Saja B. Attallah***
17:50	Dhiaa M. Abed, Saja B. Attallah, Awab Qasim Karamanji, Ruslan S. Naseef, Hussein M. Hasan, Abusnina M. Mukhtar, Ali S. Abdulmohsin, Zaid Ameen Abduljabbar and Vincent Omollo Nyangaresi *Automatic Speech Recognition: A Comprehensive Review From HMM-GMM to Self-Supervised Foundation Models* ***PRESENTER: Saja B. Attallah***
18:00	Yassine Seghrouchni, Mourad Yessef and Badre Bossoufi *FPGA Acceleration Architectures for Renewable Energy Integration* ***PRESENTER: Yassine Seghrouchni***

15:30-18:10 Session 4H: E-Session_2
Chairs: Bhargav Appasani and Hossein Shayeghi
Location: E-SESSION 2

15:30	Andreea-Daniela Savu, Nicu Bizon and Sebastian-Alexandru Dragusin *Low-Cost Embedded System for Acoustic Fault Detection* ***PRESENTER: Andreea-Daniela Savu***
15:40	Vandana Singh, Nilesh Jadav, Akshara Prachi and Emil Pricop *Blockchain-based Hierarchical Locking for Concurrent Nested Transaction Management*
15:50	Anuruddh Paul, Mahendra Kumar Gourisaria, Amitkumar V. Jha, Bhargav Appasani, Nicu Bizon and Satyabrata Roy *Beyond Images: Metadata-Augmented Multimodal Fusion for Wildlife Classification* ***PRESENTER: Anuruddh Paul***
16:00	Dasamandam Venkata Supriya, Attanti Nandhini, Reddipalli Likitha, Baisani Hemanth Kumar, Syed Zahiruddin, Prof. Avireni Srinivasulu, Cristian Ravariu, Bhargav Appasani and Musala Sarada *Energy Efficient Approximate Adder Architecture for Breast Cancer Image Processing Application*
16:10	Malathi Santhoshini Kaza, Musala Sarada, Avireni Srinivasulu, Syed Zahiruddin, Bhargav Appasani, Cristian Ravariu and Venkata Subbarama Murali Krishna Petluri *VDTA Implementation of Schmitt Trigger without External Passive Components*
16:20	Yatham Srinivas, Orus Lalitha, Prof. Avireni Srinivasulu, Bhargav Appasani and Cristian Ravariu

	Design and System-Level Validation of a Truth-Table Synthesized 18-Transistor Full Adder for Binary Accumulation Application ***PRESENTER: Yatham Srinivas***
16:30	Suvarna Thakur, Shivajirao Jadhav, Vinod Kadam, Kaustubh Jagtap, Elesh Rodge and Sanjog Magar *A Multi-Layered Secure Online Voting Architecture with Simulated-Aadhaar Authentication, Biometric Liveness Detection, and Cryptographic Audit Control*
16:40	Meryem Paşaoğlu and Furkan Göz *Zero-Shot Detection of Dental Pathologies with Multimodal Large Language Models on Panoramic Radiographs* ***PRESENTER: Meryem Paşaoğlu***
16:50	Israj Ali, Aronno Ghosh, Amitkumar V. Jha and Bhargav Appasani *Multi-Label Smart Grid Fault Classification Using LightGBM Based Gradient Boosting* ***PRESENTER: Aronno Ghosh***
17:00	Santhush Himal, Bhagya Mahanama, Hasara Maligaspe, Imaya Poojani and Uditha Dharmakeerthi *An End-to-End IoT-Enabled Cyber-Physical System for Automated Pineapple Quality Assessment, Grading, and Sorting*
17:10	Hossein Shayeghi, Babak Mohamadi, Peyman Zare, Salar Rezaei Moghadam and Nicu Bizon *Digital-Intelligence Deep-Learning for Confidential-Computing under Zero-Trust Tokenization Against Cyber Attacks*
17:20	Hossein Shayeghi, Babak Mohamadi, Peyman Zare, Salar Rezaei Moghadam and Nicu Bizon *Blockchain-Audited Carbon Accounting for Hydrogen-Based Renewable Energy Market Coordination*
17:30	Rayan Qamar, Bhargav Appasani, Nicu Bizon, Smita Verma and Amitkumar V. Jha *Capability Degradation in Small Language Models Under Low-Signal Data Corruption* ***PRESENTER: Rayan Qamar***
17:40	Hossein Shayeghi, Babak Mohamadi, Peyman Zare, Pooria Savabi and Nicu Bizon *Carbon Transparency Blockchain in Renewable-Rich Hydrogen Energy Smart Ecosystems*
17:50	Ikram Saady, Btissam Majout, Mohammed Karim and Badre Bossoufi *Comparative Analysis of Incremental Conductance and Kalman Filter Approaches for Optimizing Photovoltaic Water Pumping Systems* ***PRESENTER: Ikram Saady***
18:00	El-Houssine Bekkour, Zakariae Sakhri, Said Mahfoud, Anis Boulal and Badre Bossoufi *Integral Backstepping Control for Permanent Magnet Synchronous Motor Drives: Design, Stability Analysis, and Simulation Validation* ***PRESENTER: El-Houssine Bekkour***

15:30-18:10 Session 4I: E-Session_3
Chair: Ovidiu-Constantin Novac
Location: E-SESSION 3

15:30	Madusha Bangamuwage, Nilan Hansajith, Divana Vihani, Rushani Randeni, Sanjeevi Chandrasiri and Shalini Rupasinghe *Multi-Modal Machine Learning and IOT Framework for Precision Cinnamon Cultivation*
15:40	Eshanie Rathnasinghe, Thiyara Gunawardena, Binuki Mihara, Chathuni Abesinghe, Dr Lakmini Abeywardhana, Lokesha Weerasinghe and Dr. Naren Selvaratnam *AI-Based Early Childhood Emotion Monitoring using Artworks and Emotion Regulation Checklist* ***PRESENTER: Eshanie Rathnasinghe***
15:50	Thiyara Gunawardena, Eshanie Rathnasinghe, Chathuni Abesinghe, Binuki Mihara, Lakmini Abeywardhana, Lokesha Weerasinghe and Naren Selvaratnam *Automated Bilingual Handwriting Evaluation for Early Childhood Education: A Multi-Metric Structural Analysis* ***PRESENTER: Thiyara Gunawardena***
16:00	Binuki Mihara, Eshanie Rathnasinghe, Thiyara Gunawardena, Chathuni Abesinghe, Lakmini Abeywardhana, Lokesha Weerasinghe and Naren Selvaratnam *AI-based Multi-Stage Pipeline for Early Childhood Personalized Linguistic Assessment*

16:10	Devanga Palliyaguru, Hinesha Perera, Thinal Fernando, Tharindu Abenayaka, Lakmini Abeywardhana and Nathali Silva *A Protocol-Aware DAG-Based Multi-Agent Orchestration Framework for Intelligent Tourism Assistants*
16:20	Chathuni Abesinghe, Eshanie Rathnasinghe, Thiyara Gunawardena, Binuki Mihara, Dr. Lakmini Abeywardhana, Lokesha Weerasinghe and Dr.Naren Selvaratnam *Computer Vision Techniques for Fine Motor and Focus Level Monitoring using Colouring and Tracing Activities in Early Childhood* ***PRESENTER: Chathuni Abesinghe***
16:30	Dinura Vimukthi, Poorni Thilakarathna, Devin Silva, Kavindu Galgamuwa, Lakmini Abeywardhana and Amila Nuwan Alexander *Warehouse Safety and Security Monitoring with Computer Vision* ***PRESENTER: Dinura Vimukthi***
16:40	Nipuni Siriwardhana, Tharusha Bandara, Kavisha Nilmani, Hashinika Thisaravi, Lakmini Abeywardhana and Anuradha Karunasena *AI-Driven Skill Gap Analysis and Career Development Framework Using Knowledge Graphs and Adaptive Interview Intelligence*
16:50	Chamuditha Wanninayake, Sayumi Devasurendra, Pubuth Prajeshwara, Anuja Uthsara, Lakmini Abeywardhana, Mahima Weerasinghe, Kumudu Gunasekara and Shanika Wickramasinghe *Pre-Analytical Quality Validation for Malaria Diagnosis: A Multi-Stage Deep Learning and Computer Vision Framework*
17:00	Amodhya Silva, Lavindi Endera Arachchi, Nanduni Weerakoon and Amanda Arangalla *An Agentic Multi-Modal Unstructured Data Preprocessing Framework with LLM-Guided Orchestration and Quality-Driven Validation*
17:10	Haritha Himansha, Navinda Viraj, Thilina Sandamal, Ashani Hettiarachchi, Sanjeevi Chandrasiri and Lokesha Weerasinghe *OptiCode: An AI-Powered Intelligent Code Analysis Platform for Enhancing Computer Science Education* ***PRESENTER: Haritha Himansha***
17:20	Harish Apuri, Shikher Goel, Charani Yepuri and Madhan Mohan Reddy Chinthala *ZeroGuard: A Multi-Agent Zero-Trust Framework for Autonomous IaC Security Remediation*
17:30	Harish Apuri, Shikher Goel, Madhan Mohan Chinthala and Charani Yepuri *InfraAgent: A Multi-Agent AI Framework for Predictive Deployment Failure Detection and Autonomous Remediation in Multi-Cloud Environments*
17:40	Shikher Goel and Harish Apuri *PolicyAgent: A Multi-Agent Generative AI Framework for Automated Reasoning Checks and Policy-Constrained Compliance in Financial Services*
17:50	Shikher Goel and Harish Apuri *PatternForge: A Multi-Agent Generative AI Framework for Catalog-Driven Orchestration Across Enterprise CRM and Hyperscaler Cloud Platforms*
18:00	Gokay Mutlu, Nese Rihani and Ozgur Koray Sahingoz *ML-Driven Detection of Malicious PE Files: A Lightweight and Scalable Approach*

15:30-18:00 Session 4J: E-Session_4
Chairs: Pham Duc Dai and Yacine Yaddaden
Location: E-SESSION 4

15:30	Osman Aksu, Michael Schmid, Florian Bierwirth, Mišel Radosavac and Hans-Georg Herzog *Adaptive Multi-Scale Attention-Based LSTM Coupling for Early Detection*
15:40	Pham Duc Dai and Trung-Dung Le *Optimal Pressure Management for Water Distribution Systems Using Accurate Quadratic Pipe Friction Model*
15:50	Pham Duc Dai, La Phu Hien and Khoa Nguyen Dang *Advanced Water Quality Management by UAV based in-situ measurement, Water Sampling and Remote Sensing*
16:00	Trung-Dung Le and Pham Duc Dai *Intelligent IoT Environmental Monitoring with Edge-Based Dynamic Linear Regression Algorithm*

16:10	Ibrahim Toy and Akif Durdu *Fault-Tolerant Human Detection using Radar-Camera Fusion* ***PRESENTER: Ibrahim Toy***
16:20	Michael Schmid, Tianze Liang, Osman Aksu, Mišel Radosavac, Florian Bierwirth and Hans-Georg Herzog *On the Limits of Attention-Enhanced Long Short-Term Memory Networks for Automotive Steering Torque Modeling*
16:30	Neha Rathore, Arvind Selwal and Tanisha Gupta *A Lightweight and Hybrid Pipeline for Palmprint Spoof Detection*
16:40	Rihab Baccari, Hana Benmoussa, Yacine Yaddaden, Mohamed Arbane, Jean Brousseau, Clothilde Brochot, Ali Bahloul and Xavier Maldague *Robust Patch-Level Infrared Leak Detection on N95 Respirators Using Spatiotemporal Deep Learning* ***PRESENTER: Rihab Baccari***
16:50	Abakar Abbas Abakar and Yacine Yaddaden *Lightweight Skeleton-Based Driver Distraction Detection Using Geometric Features and Subject-Independent Learning* ***PRESENTER: Abakar Abbas Abakar***
17:00	Clément Ruissel Kouonga Fokam and Yacine Yaddaden *Subject-Independent Hand Gesture Recognition Using Wearable Inertial Sensors and Deep Learning for Robotic Interaction* ***PRESENTER: Clément Ruissel Kouonga Fokam***
17:10	Yaye Dieynaba Fall and Yacine Yaddaden *Controlled Deep Feature Learning with Adaptive PCA and SVM for Facial Expression Recognition under Limited-Data Conditions* ***PRESENTER: Yaye Dieynaba Fall***
17:20	Hana Benmoussa, Rihab Baccari, Yacine Yaddaden, Mohamed Arbane, Jean Brousseau, Clothilde Brochot, Ali Bahloul and Xavier Maldague *Attention-Enhanced U-Net for Robust N95 FFR Segmentation in Infrared Imagery* ***PRESENTER: Hana Benmoussa***
17:30	Thierry Mubang Nuh and Yacine Yaddaden *Pixel-Wise Semantic Segmentation of Wood Surface Defects Using Deep Learning for Automated Industrial Inspection* ***PRESENTER: Thierry Mubang Nuh***
17:40	Mame Sandeck Niang and Yacine Yaddaden *Scalable Palmprint Authentication Using Deep Features and One-Class PCA* ***PRESENTER: Mame Sandeck Niang***
17:50	Bharat Bhushan Sharma, Arvind Selwal and Tanisha Gupta *Cross-domain Fine-Tuned Wav2Vec 2.0 model with Bidirectional GRU for Audio Deepfake Detection* ***PRESENTER: Bharat Bhushan Sharma***

15:30-18:00 Session 4K: E-Session_5
Chair: Maria-Elena Stanciu
Location: E-SESSION 5

15:30	Pravallika Reddy M, Thota Akhila, Thaya Madhavi, Tummala Sarita and Sheik Firoz Khan *A study on AI readiness and bias risk in AI based recruitment evidence from selected IT Companies* ***PRESENTER: Thota Akhila***
15:40	Thaya Madhavi and Pagadala Naveen Kumar *Understanding AI Adoption in Digital Marketing: An SEM Approach* ***PRESENTER: Thaya Madhavi***
15:50	Zainab Falah and Maytham Alabbas *Evaluating Hybrid Population Initialization Frameworks for Mountain Gazelle Optimizer* ***PRESENTER: Zainab Falah***
16:00	Nabaa Alsinayyid and Maytham Alabbas *Fuzzy-Adaptive Bayesian Hyperparameter Optimization Method for XGBoost*

	PRESENTER: Nabaa Alsinayyid
16:10	Seda Yildirim and Gürkan Aydemir *Simulation-Based Analysis of Current Stress and State of Charge Divergence in 2P2S Battery Configurations under Aging Effects* ***PRESENTER: Seda Yildirim***
16:20	Tummala Saritha and Thaya Madhavi *AI-Driven Hybrid Work Model: A Structural Analysis of Employee Performance and Organizational Productivity*
16:30	Ugur Erbas, Bahtiyar Bayram, Adem Avci and Mehmet Baris Tabakcioglu *Deep Learning Based Coverage Mapping in Knife-edge Structured Scenarios* ***PRESENTER: Ugur Erbas***
16:40	Ugur Erbas, Tahir Bekiryazıcı, Gürkan Aydemir and Mehmet Baris Tabakcioglu *Efficient Coverage Area Prediction via Weight-Sharing 1D Residual U-Net with SE-Blocks* ***PRESENTER: Ugur Erbas***
16:50	Kübra Yiğit, Begüm Beraye Atalay, İbrahim Kaya, Gürkan Aydemir, Salih Mehmed Bostan and Mehmet Baris Tabakcioglu *RF Fingerprinting and Classification of 15 Different UAV Remote Controllers viaRaw Signal Analysis with 1D-CNN*
17:00	Begüm Beraye Atalay, Kübra Yiğit, İbrahim Kaya, Gürkan Aydemir, Salih Mehmed Bostan and Mehmet Baris Tabakcioglu *Real-Time Acoustic UAV Localization Using 1D-CNN Based Models*
17:10	Ibrahim Kaya, Begüm Beraye Atalay, Kübra Yiğit, Ibrahim Idris Ibrahim, Gürkan Aydemir, Salih Mehmed Bostan and Mehmet Baris Tabakcioglu *RF Fingerprint-Based Drone Controller Classification Using Feature Engineering and Machine Learning*
17:20	Mustafa Dev, Seda Yildirim and Gürkan Aydemir *Pros and Cons of One-Dimensional Convolutional Neural Network Models in Sound-Based Industrial Fault Detection* ***PRESENTER: Seda Yildirim***
17:30	Sanuda Sandipa, Sachinthya Rajapakshe, Gimhani Jayasuriya, Ishara Wijayarathna, Dr.Kapila Dissanayaka and Ms.Fathima Fanoon *MarketMatic: Multi-Tenant Customer Support Smart Assistant with RAG for Small and Medium Enterprises* ***PRESENTER: Sanuda Sandipa***
17:40	Theakanath Steffy Burly, Adithya Divakaran, Johanna Sophie von Lieres and Miriam Silverman *Design Requirements for LLM-Based Assistive Tools for Parents and Educators Supporting Autistic Learners: A Qualitative Requirements Analysis in the Indian Context* ***PRESENTER: Johanna Sophie von Lieres***
17:50	Syeda Tuba Andrabi, C. Chacko, Johanna Sophie von Lieres and Miriam Silverman *Time, Technology, and Neurodiversity: Lived Experiences of Neurodivergent Adults in India and Implications for AI Personal Assistant Design* ***PRESENTER: Johanna Sophie von Lieres***

15:30-18:00 Session 4L: E-Session_6
Chair: Sebastian Dragusin
Location: E-SESSION 6

15:30	Najwa Abdulateef and Zakariya Oraibi *An Efficient Vision Transformer-based Skin Cancer Classification Framework using an Imbalanced Dataset* ***PRESENTER: Zakariya Oraibi***
15:40	Shubham Kamdi *Developing Custom Line Charts For Mobile Application*
15:50	Kumkum Thakar and Vishakh Soni *Realization of Different Control Strategies of AC Voltage Regulator* ***PRESENTER: Kumkum Thakar***
16:00	Vinh Ngo Quang

	Performance Evaluation of an LQG Controller for a VOC-Based Three-Phase Active Rectifier
16:10	Kavindu Abeysundara and Prasandika Balage *Adaptive Machine Learning System for Personalized Mental Health Risk Detection from Social Media* ***PRESENTER: Kavindu Abeysundara***
16:20	Garwaz Akilan, Moises Javier, Moh. Ahadhin Tati and Odon Maravillas *Fault Detection in Car Engines Using Acoustic Analysis for Predictive Maintenance and Diagnostics* ***PRESENTER: Moh. Ahadhin Tati***
16:30	Dushan Warnakulasuriya, Madhawa Awishka, Danuka Ariyarathne, Banuka Wahalathanthri, Kalpani Manathunga and Suriyaa Kumari *A Multi-Stage Explainable AI Architecture for Stock Forecasting and Portfolio Decision Support* ***PRESENTER: Dushan Warnakulasuriya***
16:40	Ali Abd Ali, Hameed Farhan and Muayad Kod *A Robust System for Detecting and Recognizing Iraqi License Plates using Deep Learning and OCR Techniques*
16:50	Rusul Hanoon, Hameed Farhan and Arwa Taqi *Evaluating the Impact of Quantum Computing on Convolutional Neural Network Performance for Mammogram-Based Breast Cancer Detection* ***PRESENTER: Rusul Hanoon***
17:00	Wimukthi Dassanayake and Prasandika Balage *A Multi-Stage Transformer-Based Pipeline for Patient-Friendly Interpretation of Handwritten Medical Prescriptions* ***PRESENTER: Wimukthi Dassanayake***
17:10	Hüseyin Tayyer Canseven and Evin Şahin Sadık *Event-Driven Short-Circuit Fault Classification in SCIG with Confidence-Weighted Aggregation* ***PRESENTER: Evin Şahin Sadık***
17:20	T Deva Prasad and B Raghava Reddy *FinTech Adoption, Green Finance, and Financial Literacy: A Unified Framework for Sustainable Consumer Behaviour* ***PRESENTER: T Deva Prasad***
17:30	John Mathew Mauricio, Theris Eldrene Carroz, Jazzer Ong and Jason Catadman *HairMixer: A Hairstyle Recommendation and Simulation System Based on Facial Structure Using Convolutional Neural Networks*
17:40	Pavitra Mohandas, Sudesh Kumar Santhosh Kumar and Saiharshith Karuneegar Ramesh *Risk-Aware Prioritization of Pharmacy Prescription Queues*
17:50	Rence Joseph Cadsawan, Patrick John Figarola and Meo Vincent Caya *Sweet Corn Maturity Classification using YOLOv7 and ResNet-50* ***PRESENTER: Rence Joseph Cadsawan***

July 2, 19:00-21:00:
ECAI Dinner

Friday, July 3, 2026

July 3, 09:00-09:30, Conference desk
Registration of the participants

July 3, 09:30-11:00, ECAI KEYNOTE LECTURES II

Chair : Nicu Bizon
Location: ROOM 1

09:30	**Eckart Hoene** *Beyond the Schematic: Unveiling Parasitic Electromagnetic Effects in Power Electronics*
10:10	**Ersan Kabalci** *Enabling the Next Generation of High-Performance and Sustainable Industry by Multilevel Inverters and Model Predictive Control*

11:00-11:30, Coffee break; Discussions and Brokerage events

July 3, 11:30-14:00, ECAI morning sessions
July 3, 14:00-15:30 Lunch
July 3, 17:30-18:00 ECAI Closing Solemnity

11:30-14:00 Session 6A: Artificial Intelligence Applications
Chair:
Aurel Mihail Titu
Location: ROOM 1

11:30	Sorin Constantin Nacu and Aurel Mihail Titu *Digitalization of quality management in knowledge-based organizations: challenges and artificial intelligence-based solutions* ***PRESENTER: Sorin Constantin Nacu***
11:45	Constantin Sebastian Lazar *A Regression-Based Machine Learning Prototype for Decision Support in Railway Transport Systems*
12:00	Dan Theodor Andronic, Stefan Titu and Aurel Mihail Titu *Comparative Analysis of Medical Information Systems for Improved Patient Care and Data Precision* ***PRESENTER: Dan Theodor Andronic***
12:15	Claudiu Alexandru Covaci, Aurel Mihail Titu and Emanuel Balc *From Data to Decisions: A Hybrid Model Combining Predictive Quality Analytics and FMEA for Zero-Defect Strategies in Automotive Supply Chains* ***PRESENTER: Claudiu Alexandru Covaci***
12:30	Claudiu-Sorin Cleoanta *Ethical Principles for the Use of AI in the Military Domain*
12:45	Kandepi Chethana Priya, Gundlapalli Karthik Kumar, Chandrasekhar Ramya, Duddu Sivanandam, Tummala Sarita and Thaya Madhavi *An Evaluation of AI-Enabled Social Media Platforms in Enhancing Talent Acquisition Effectiveness* ***PRESENTER: Kandepi Chethana Priya***
13:00	Draghici Georgiana, Popescu Elena and Duminica Delia *Artificial Intelligence as a Mediator of Interpersonal Communication in the University Environment: Opportunities, Risks, and Social Implications* ***PRESENTER: Duminica Delia***
13:15	Cynthia Andreea Delea, Eugen Pop, Mihnea-Alexandru Moisescu and Miruna Elena Iliuta

	A Multi-Source Integration Architecture for Intelligent Enterprise Resource Planning and Customer Relationship Management Systems in Electronic Commerce ***PRESENTER: Cynthia Andreea Delea***
13:30	Shishir Maheshwari, Sunilkumar Telagam Setti and Daniel Rönnow *Moisture Content Classification From Images using Statistical Features* ***PRESENTER: Sunilkumar Telagam Setti***

11:30-14:00 Session 6B: Electromagnetic Compatibility & Biocompatibility & Communication
Chair: Dumitru Cazacu
Location: ROOM 2

11:30	Dumitru Cazacu, Bogdan Puiu, Nicu Bizon, Roxana Camelia Cazacu and Constantin Stoica *Comparative Analysis of Low-Frequency Magnetic Shielding in Spherical and Cylindrical Conductive Shields Using FEM and Kaden's Analytical Model* ***PRESENTER: Dumitru Cazacu***
11:45	Elena Helerea and Marius Daniel Calin *Advances in Electromagnetic Shielding Materials – A short Review* ***PRESENTER: Elena Helerea***
12:00	Sergiu-Leonard Tulbure *Analysis and Simulation of the Capacitive and Inductive Coupling of Perturbations on Mixed Signal Printed Circuit Boards*
12:15	Andreica Sergiu, Calin Munteanu, Marian Gliga, Adina Giurgiuman, Claudia Pacurar, Claudia Constantinescu and Lavinia Opris *Frequency-Scalable Design and Experimental Validation of SOLR Microstrip Bandpass Filters at 2.4, 3.5, and 5.8 GHz* ***PRESENTER: Andreica Sergiu***
12:30	Valentina Marascu, Marius Iulian Mihailescu, Cristian Stancu, Silviu Daniel Stoica, Catalin Constantin and Marius Rogobete *Coupling Cold Plasma Measurements with Cryptographic Key Generation for Secure Communications* ***PRESENTER: Valentina Marascu***
12:45	Lavinia-Andrada Stuparu and Paul Șchiopu *Optical Fiber Fundamentals for Distributed Sensing: A Review* ***PRESENTER: Lavinia-Andrada Stuparu***
13:00	Vasile Fotache *Distributed Sensor Communication over NRF24L01 Networks Using Adaptive TTL and Aggregated Acknowledgment*
13:15	Ethem Şekerci and Ayhan Küçükmanisa *Artificial Intelligence-Based Classification of Human Activities from mmWave Radar Point Clouds*
13:30	Ilie Cristian Dorobat *Question Answering Over Knowledge Graphs: The DBpedia Case Study*

11:30-14:00 Session 6C: Control Systems & Industrial Automation
Chair: Vasile-Gabriel Iana
Location: ROOM 3

11:30	Radu Bucea-Manea-Țoniș and Adrian Beteringhe *Domain-Driven Design and Annotation Processing in Java* ***PRESENTER: Radu Bucea-Manea-Țoniș***
11:45	Diana-Mihaela Negut and Stefan-Ciprian Arseni *Decentralized Storage System with Enforced User Control over Data*
12:00	Sanda Florentina Mihalache, Marian Popescu and Marian Todoran *Monte Carlo Sampling and Gradient-Based Optimization for an Oil-Water Separation Process*
12:15	Mutaz Ali, Nuseiba Yousif and Mastora Sahal *A Geometric Nonlinear Control Approach for Stabilizing Networked Supply Chain Systems Under Stochastic Demand Uncertainty* ***PRESENTER: Mutaz Ali***
12:30	Constantin Alin Copaci

	Predictive Resilience in 5G/6G MEC Infrastructures: Adaptive Entropic Control and Digital Twins within a Multi-Agent Cognitive Framework
12:45	Alexia-Ioana Dragomir and Nita Stefania Loredana *Hybrid Online/Offline Localization System for Indoor–Outdoor Personnel Tracking* ***PRESENTER: Alexia-Ioana Dragomir***
13:00	Constantin Alin Copaci *Modeling and evaluation of resilience in 5G critical communications using composite metrics and Multi-Access Edge Computing architectures*

11:30-14:00 Session 6D: Renewable Energy & Smart Grids
Chairs: Valentin Alexandru Stan and Bogdan-Adrian Enache
Location: ROOM 4

11:30	Marius Iulian Mihailescu, Stefania Loredana Nita, Valentina Marascu, Liliana Zisu, Laurentiu Bogdan Asalomia and Marius Rogobete *Reinforcement Learning Based Network Adaptation for UAV-Assisted Agricultural IoT Monitoring* ***PRESENTER: Valentina Marascu***
11:45	Vlad Sanduleac, Andreea-Georgiana Iantoc, Alexandru Raduica, Mihai Sanduleac, Stefan Popa, Lola Alacreu, Diego Garcia, Pablo Bort and Dorel Stanescu *NN-Assisted Event De-Spamming for CERF-Based Energy-Awareness Notifications: A Proof-of-Concept Implementation* ***PRESENTER: Vlad Sanduleac***
12:00	Theodor Pintilie, Cristina Dobre, Robert Streche, Andrei Dănilă and George Suciu *An Integrated Geospatial Platform for Climate Risk Visualization of Transport and Energy Infrastructure* ***PRESENTER: Theodor Pintilie***
12:15	Sorin Tălpășanu, Florin Argatu, Ioana-Raluca Adochiei, George Calin Seritan and Felix Constantin Adochiei *Design and Experimental Validation of an Open-Source IIoT Architecture for Electrical Cabinet Monitoring in Hydroelectric Power Plants*
12:30	Marius-Emanuel Obreja and Dan-Marius Dobrea *Benchmarking Deep Neural Network Architectures for Potholes Detection Using MATLAB* ***PRESENTER: Marius-Emanuel Obreja***
12:45	Marius-Emanuel Obreja and Ionuț-Andrei Ciobotaru *Towards Safer Urban Mobility YOLO-Driven Detection of Road Irregularities for Smart City* ***PRESENTER: Marius-Emanuel Obreja***
13:00	Mara Antonia Duca and Stefania Loredana Nita *Security-Event-Driven Mobile Backup with Searchable Encrypted Storage* ***PRESENTER: Mara Antonia Duca***
13:15	Corina Daniela Mihai, Iuliana Diana Mihalache, Alexandra Fratila and Bogdan-Adrian Enache *Techno-Economic Optimisation of a Green Mobile Energy Services in Bucharest* ***PRESENTER: Bogdan-Adrian Enache***
13:30	Lipsa Subhadarshini and Pallabi Mishra *Comparative BPM-Based Analysis of Grating-Assisted Coupling in Microring Resonators for Integrated Photonic Applications*

11:30-14:00 Session 6E: Cybersecurity, Communications & Software Engineering
Chair: Marius Minea
Location: ROOM 5

11:30	Robert Cristian Robu, Constantin Viorel Marian and Alexandru Petrisor Cioponea *Decision-Level Fusion of One Class Detectors for Zero Trust Continuous Verification*
11:45	Robert Cristian Robu, Constantin Viorel Marian and Alexandru Petrisor Cioponea *One-Class LSTM Behavioral Modeling for Insider Threat Detection in Zero Trust Architectures*
12:00	Adelaida Stanciulescu *Cybersecurity Resilience of Healthcare Critical Infrastructure: A Case Study of the Hipocrate/RSC Ransomware Incident (February 2024)*
12:15	Adelaida Stanciulescu

	Software supply chain attacks in 2025–2026: comparative analysis of attack vectors, OSINT sources and design of a Machine Learning architecture for early warning
12:30	Mihnea Neferu, Constantin Viorel Marian and Dan Alexandru Mitrea *Vibe Coding: A New Paradigm in Software Development Assisted by Artificial Intelligence*
12:45	Alexandru Petrisor Cioponea, Constantin Viorel Marian and Robert Cristian Robu *QoS-Guaranteed Resource Slicing in Wired Networks via ML Metaheuristics*
13:00	Ionut Georgian Stroie and Marius Minea *Advanced Methodologies for Testing and Evaluating Autonomous Vehicles: A State-of-the-Art Review and Future Directions* ***PRESENTER: Ionut Georgian Stroie***
13:15	George Cosmin Stanica and Petre Anghelescu *Cellular Automata Approaches to Hash Functions Design for Data Integrity* ***PRESENTER: George Cosmin Stanica***
13:30	Cristian Ștefan Ene and Marius Minea *Enhancing Security in Automotive Mobile Ad-Hoc Networks: Mitigating DDoS Attacks Through Integrated SIEM, NDR, and SOAR Solutions* ***PRESENTER: Cristian Ștefan Ene***
13:45	Alina Maria Marinescu, Elionora Serdaru and Constantin Viorel Marian *Adaptive Communication Strategies for Distributed Medical Sensor Data Traffic*

11:30-14:00 Session 6F: E-Session_7
Chair: Ovidiu-Constantin Novac
Location: E-SESSION 1

11:30	Mallela Abhishek, Dr.N Sudhakar Reddy, Koosetty Amulya Royal, Penugonda Dugra Prasad, Pentiboina Uma Mahesh and Balamanikandan A *Internet of Things Based Low Concentration Photovoltaic Silicon Solar Cell Protection Using Active Cooling System* ***PRESENTER: Mallela Abhishek***
11:40	Fred Anthony Yu and Jaydee Ballaho *HydroLink: IoT-Based Automatic Water Refilling System for Rationed Water Supply* ***PRESENTER: Fred Anthony Yu***
11:50	Balaji V, Harshini P, Jeeva Dharshini T and Megaa S *Smart Inverter Design for Zero Emission Marine Power System*
12:00	Hayder Nabeel Jalo, Adnan Hussein Ali, Maaly Amer Mohammed, Anmar Yahya Taher, Saad Mutashar and Safaa Aqeel Khazraji *Deep Autoencoder-Driven Nonlinear Feature Compression for Robust DDoS Detection in IoT Networks* ***PRESENTER: Hayder Nabeel Jalo***
12:10	Aya Ahkam Kamil, Zeyad Taha Yaseen, Anmar Yahya Taher, Adnan Hussein Ali, Omar Sameer Khalis and Hayder Nabeel Jalo *Design and Performance Analysis of Elastic Digital–Analog Radio-over-Fiber for Next-Generation Wireless Access* ***PRESENTER: Adnan Hussein Ali***
12:20	Ghaihab Hassan Adday, Hikmat Z. Neima, Maha Salih Abdulridha, Ans Ibrahim Mahameed and Rana M. Ghadbanline *A Smart Geographic Routing Algorithm Based on TOPSIS for Congestion Mitigation and Void Areas Bypassing in Wireless Sensor Networks* ***PRESENTER: Ghaihab Hassan Adday***
12:30	Varun Slathia, Khushpuneet Kaur, Vikash Kumar, Karan Kumar and Harmeet Singh *Smart Health Monitoring Device that Monitor Blood, Oxygen, And Heart Rate With Automatic Data Saving*
12:40	Abeer Hussien and Wafaa Al Hameed *Extractive query_ based summarization using clustering Algorithm based on Topic model with MMR* ***PRESENTER: Abeer Hussien***
12:50	Dr. N. Sudhakar Reddy, Shaik Karishma, Makam Guru Yogeswar, Karthika V Venkata and Balamanikandan A

	Multi-Sensor Vehicle Safety and Monitoring System ***PRESENTER: Karthika V Venkata***
13:00	Abdellah El Idrissi, Belkasem Imodane, Hatim Ameziane, Mohamed Benydir, M'Hand Oubella, Hamid Hamdani and Mohamed Ajaamoum *Energy Management Optimization for a PV–Wind Hybrid System with Continuous Hydrogen Production.* ***PRESENTER: Abdellah El Idrissi***
13:10	Cătălin Adrian Iordache, Constantin Viorel Marian and Adrian Țuțuianu *The path to electronic voting, a bold strategy to implement electronic ballot-box scanners* ***PRESENTER: Cătălin Adrian Iordache***
13:20	Mohammad Ahmed, Harith Al-Badrani and Sahar L. Qaddoori *Adaptive Fuzzy-Tuned Continuous Control Set Model Predictive Control for a Non-Inverting Buck-Boost Converter* ***PRESENTER: Mohammad Ahmed***
13:30	Mohammed Abdulaghfoor and Mohanad Al-Ibadi *Hybrid Information- and Energy-Aware Sensor Scheduling for Fair Target Tracking in Wireless Sensor Networks.* ***PRESENTER: Mohammed Abdulaghfoor***
13:40	Safa Hazim Alwan, Yasir Amer Abbas and Mudhafar Hussien Ali *Efficient area optimization of PHOTON-256/32/32 Architecture Using Log/AntiLog-Based MixColumns on FPGA* ***PRESENTER: Safa Hazim Alwan***
13:50	Akash Katode, Dr. Manish Jha, Dr.Vishal Rathi, Dr. Nitin Mandaogade, Mr. Chandrakant R. Chaudhari and Green Choudhary *Xtensa-Orchestrated WEB-IoT RFID ATM: GUI-Database Symbiosis for Transparent Dual Vending Eradicating PDS Opacity* ***PRESENTER: Akash Katode***

11:30-14:00 Session 6G: E-Session_8
Chair: Mahmut Emin Celik
Location: E-SESSION 2

11:30	Clara Maathuis *Game Theory Model for Proportionality Assessment in Military Operations*
11:40	Mehmet Selman Gökmen *From Digital Twins to Autonomous Control: Physics-Informed Deep Reinforcement Learning for Transient Calibration of Alternative Fuel Engines*
11:50	Aldrikz Suarez, Art Michael Cadiz, Myke Franciz Jimenez and Mark Flores *Reactive CCTV System Using Authorization-Level Analysis*
12:00	Şükrü Selim Çalık and Zeynep Hilal Kilimci *Multimodal Deep Learning for Human Fatigue Detection and Classification Using Speech and Text Modalities* ***PRESENTER: Şükrü Selim Çalık***
12:10	Furkan Arda Dinçer and Zeynep Hilal Kilimci *A Retrieval-Augmented Generation Based Hybrid Question-Answering System for Turkish Hotel Information: A Pilot Study on Antalya Hotels* ***PRESENTER: Furkan Arda Dinçer***
12:20	Mehmet Zahid Genç, Berrin Çelik and Mahmut Emin Çelik *Comparative Analysis of Deep Learning-Based Segmentation Models for Root Canal Filling Detection with Efficiency and Pruning Evaluation* ***PRESENTER: Mehmet Zahid Genç***
12:30	Ashwin Dobariya, Jaypalsinh A. Gohil, Petre Anghelescu, Valeriu Manuel Ionescu and Madalin Ciprian Enescu *Quantum Computing at the Crossroads: A Structured Analysis of Applications, Scalability Challenges, and Future Research Directions*
12:40	Chamath Thilakarathna, Kalindu Rashmina, Yohan Weerapperuma and Asiri Alwis *Crop-to-Shelf Confidence: An Evidence-Mediation Framework for Organic Product Credibility Using Soil Irregularity Screening and Augmented Reality*

	PRESENTER: Chamath Thilakarathna
12:50	Akila Sudeepa Amarasinghe, Jayasekara Udan, Weththasinghe Athsara Bimalka, Lakshika Sachini Tharindi, Swarnakantha Ravi Supunya and Gamage Manori *PapayaPulse: The Smart Farming Framework for Data-driven Papaya Cultivation*
13:00	Enas Hamza and Aeshah Tareq Abdulateef *Review of a Biometric Systems advantages and disadvantages* ***PRESENTER: Aeshah Tareq Abdulateef***
13:10	Aslı Bahar, Funda Ergün Yardim and Mahmut Emin Çelik *SIDViz3D: A Geospatially Accurate 3D Visualization and Simulation Framework for Standard Instrument Departure Procedures* ***PRESENTER: Aslı Bahar***
13:20	Ahmet Yusuf Yatkın and Mahmut Emin Celik *Real Time 3D Aircraft Telemetry Visualization with Geospatial Terrain Integration* ***PRESENTER: Ahmet Yusuf Yatkın***
13:30	Ayse Gül Sarıkaya, Mehmet Çiydem and Mahmut Emin Celik *Real-Time AFDX Network Analysis and Fault Diagnosis in Unity* ***PRESENTER: Ayse Gül Sarıkaya***
13:40	Aykut Durgut and Mahmut Emin Celik *Unity-Based Visualization and Analysis of Error Propagation in Multi-Sensor Imaging Systems* ***PRESENTER: Aykut Durgut***
13:50	Zorana Štaka and Marko Mišić *Learning under Data Scarcity: Do Hybrid Quantum-Classical Models Generalize Differently?* ***PRESENTER: Zorana Štaka***

11:30-14:00 Session 6H: E-Session_9
Chair: Dogan Celik
Location: E-SESSION 3

11:30	Doğan Çelik *An Improved Nonlinear PI-Based Control Strategy for a Vienna Rectifier II-Based EV Powertrains*
11:40	Doğan Çelik and Hüseyin İlgü *Modelling and Performance Analysis of a Sliding Mode Controlled Dual Active Bridge DC DC Converter for Electric Vehicle Applications* ***PRESENTER: Hüseyin İlgü***
11:50	Osama Hosam and Khalifa Ali *Turathy Quest: An AI-Powered 3D Game for Dynamic Cultural Heritage Learning in the UAE* ***PRESENTER: Osama Hosam***
12:00	Harsh Gangurde, Prashant Wakhare, Suyog Dhage and Aditi Janwade *A Machine Learning–Based Digital Identity Framework for Electric Vehicle Battery Systems* ***PRESENTER: Harsh Gangurde***
12:10	Maryam Ayad Kadhem and Hilal Al-Libawy *LoRa Mesh for Large-Scale Networks: A Systematic Review of Routing, Energy, Coverage Distance, and Open Research Challenges* ***PRESENTER: Maryam Ayad Kadhem***
12:20	Snehal Bagal, Saiyami Pise, Tushar Narokar and Rushikesh Netke *AIMind: An AI-Powered Framework for Personalized Mental Health Support* ***PRESENTER: Saiyami Pise***
12:30	Ahmed I. Jaber, Hhanaa Ali Noman and Mohammed Yousif Hachom *High-Efficiency Standalone Wind Energy Conversion System: Performance Analysis under Climatic Conditions*
12:40	Funda Battal *Effects of Supraharmonics on Distribution Transformers in Grid-Connected Photovoltaic Inverter Power Systems*
12:50	Talibi Said, Chahbi Aziz, Maaider Kamal and Ameziane Hatim *Robustness and Efficiency Assessment of PI, GA-Optimized PI, and SMC for Wind Turbine Power Maximization* ***PRESENTER: Talibi Said***
13:00	Betty Jennifer Abugbillah, George Owusu and Joseph Cudjoe Attachie

	PID-Based Power Output Maximization of a Hybrid Wind-Solar-Hydro Renewable Energy
13:10	Hien Nguyen Thu, Duong Pham Hong and Viet Nguyen Hoang *Fuzzy Logic-Based Direct Torque Control for Induction Motor Drives Using a Three-Level NPC Inverter* ***PRESENTER: Hien Nguyen Thu***
13:20	Viet Nguyen Hoang, Duong Pham Hong and Hien Nguyen Thu *Comparative Evaluation of Continuous- and Finite-Control-Set MPC for a Three-Phase Grid-Connected Voltage-Source Inverter* ***PRESENTER: Viet Nguyen Hoang***
13:30	Jaafar Falih and Ahmed Raisan Hussein *Robust Multi-Sensor Fault Diagnosis of Induction Motors Using LSTM-Attention Networks* ***PRESENTER: Jaafar Falih***
13:40	Venkatesh Daggupati and Miao He *An Interpretable Hybrid Deep Learning Framework for Power System State Monitoring Using Temporal Fusion Transformers* ***PRESENTER: Venkatesh Daggupati***
13:50	Venkatesh Daggupati and Miao He *Explainable Deep Learning Framework for Intelligent Power Electronic Control in Smart Grids*

11:30-14:00 Session 6I: E-Session_10
Chair: Sebastian Dragusin
Location: E-SESSION 4

11:30	Jasir Ahmad Khan, Robin Kumar, Avik Masanta, Chestdhari Kumar, Pawan Rohan and Ayush Pandey *KisanBandhu: AI-Based Crop Recommendation and Decision Support System for Farmers* ***PRESENTER: Ayush Pandey***
11:40	Himasha Sendanayaka, Nimesh Perera, Thisara Nuwanthi, Sanduni Jayasekara, Shashika Lokuliyana and Suranjini Silva *A Lightweight YOLOv8n-Based Binary Waste Classification Model for Autonomous Garbage-Collecting Robots* ***PRESENTER: Thisara Nuwanthi***
11:50	John Casper Santos, Lesler John Gantalao, Daniela Marie Alpez and Sherard Chris Banquerigo *Extraction of Anthropometric Measurements Using Convolutional Neural Network for Somatotype Classification with Diet Suggestions* ***PRESENTER: John Casper Santos***
12:00	Hussein Mahdi Al-Rubaie and Sura Al-Rashid *Hierarchical Hypergraph Neural Networks for Multi-Type Drug-Drug Interaction Prediction* ***PRESENTER: Hussein Mahdi Al-Rubaie***
12:10	Mratyunjay Tiwari, Robin Kumar, Atul Harsh, Ram Swarup Surin, Karan Singh Pal and Varsha Saini *MORAG: A Multimodal Offline Retrieval-Augmented Generation System Using Large Language Models*
12:20	Yasser El Hardouz *AISA: A Hybrid Human-AI Evaluation Framework for Trustworthy AI Benchmarking*
12:30	Veselin Popov and Petya Popova *Impact of AI Agents on the Digital Supply Chain* ***PRESENTER: Petya Popova***
12:40	Abderrahim Bouzid, Mouad Danane and Abdelmajid El Ouadi *Digital Sovereignty in Cloud Architectures: A Systematic Literature Review of Federated Systems and AI Integration*
12:50	Pınar Ersoy and Mustafa Erşahin *A Drift-Aware Evaluation Framework for Rare-Event Prediction: Comparative Analysis of Gradient Boosting, Temporal Convolutional Networks, and Transformer Models* ***PRESENTER: Pınar Ersoy***
13:00	T.Deva Prasad, B. Raghava Reddy, Dr G Jagadeeswar Reddy, P. Krishna Moorthy, Mummadi Ramana Reddy and Dasari Rajesh Babu *Predictive Analytics of the Indian Stock Market Using Machine Learning and Big Data*

	PRESENTER: B. Raghava Reddy
13:10	Avindi Obeyesekere, Basindu Bandara, Sehan Devinda, Udara Ireshan, Nuwan Kodagoda and Nushkan Nizmi *Enhanced Museum Applications for Smart Devices: AI-Based Systems for Cultural Engagement and Intelligent Interaction* ***PRESENTER: Avindi Obeyesekere***
13:20	Zahraa Haidar Sharba and Hawraa Abbas Almurieb *Convexity Modulus in Incremental Neural Network Approximation*
13:30	Withanage Malmi, Udari Jayawardana, Duvindu Nimsara, Lahiru Udayakumara, Narmada Gamage and Suranjini Silva *CinoGrow: An Integrated Machine Learning Decision Support System for Precision Cinnamon Farming* ***PRESENTER: Lahiru Udayakumara***
13:40	Dinupa Hanthanapitiya, Sithum Rajapakse, Ramin Ratnayake, Dulan Ratnayake, Deemantha Siriwardana and Lakmal Rupasinghe *An Integrated Framework for Smart Contract Vulnerability Management using Tri-Modal Active Learning and Explainable AI* ***PRESENTER: Dinupa Hanthanapitiya***
13:50	Mohammed Majid Nejm and Hawraa Abbas Almurieb *Multichannel-Convolution Neural Networks Approximation Spaces* ***PRESENTER: Hawraa Abbas Almurieb***

11:30-14:00 Session 6J: E-Session_11
Chair: Ouahbi Younesse
Location: E-SESSION 5

11:30	Liu Guohao and Bin Zou *ParkSegNet: An Efficient and Lightweight Semantic Segmentation Network for Parking Lot Scenarios* ***PRESENTER: Liu Guohao***
11:40	Ouahbi Younesse, Mdarhri Ilham, Nseri Nouhaila, Benlkahla Noha, Zaroual Najlae, Mellaj Soraya and Ziti Soumia *Real-Time Gesture-to-Text Translation for American Sign Language Using MediaPipe and LSTM* ***PRESENTER: Mdarhri Ilham***
11:50	Ouahbi Younesse, Maarouf Asmae, Khalifi Manal, Saadaoui Benlkahlaafrae, Driar Raid, Kasraoui Mehdi and Ziti Soumia *Smart Monitoring of an Agricultural Greenhouse: Predictive Analysis for Tomato Cultivation* ***PRESENTER: Maarouf Asmae***
12:00	Mohammed Badliwala, Lalit Rathod, Sumit Tapal, Aditya Doiphode and Vrishali Walanj *VISION-BASED ATTENDANCE MARKING SYSTEM*
12:10	Devesh Jain, Prajwal Gaikwad, Prachi Palve and Sakshi Suryavanshi *SunoSign: A Speech and Gesture-Based Indian Sign Language Translator*
12:20	Andrea Bague, Molly Domingo and Rosemarie Pellegrino *Development of a Driving Mode Applocker for Mobile Phones Using 1D CNN and Raspberry Pi 4*
12:30	Jorge Felix Martínez Pazos, Hans-Peter Köhler, Silvano Merced Len and Jorge Gulìn-Gonzàlez *Pose Estimation Driven Kinematic Analysis of Shoulder Exercises Captured from Monocular Videos in Natural and Realistic Conditions*
12:40	Fatima Zohra El Hlouli, Jamal Riffi and Hamid Tairi *Comparative evaluation of imbalance handling methods for outlier detection* ***PRESENTER: Fatima Zohra El Hlouli***
12:50	Buddhika Roshan, Sonali Liyanahetti, Heshani Niwanthika, Shamith Siriwardhana, Dinithi Pandithage, Rangi Liyanage and Subhash Jayasinghe *ML Based Microscopic Image Analysis for Automated Detection and Classification of Blood Disorders*
13:00	Mustafa Sönmez and Turgay Tugay Bilgin *Communication-Efficient Federated Learning for Insider Threat Detection: A Trade-off Analysis of Parameter Compression Techniques* ***PRESENTER: Mustafa Sönmez***

13:10	Zainab Al Bakaa and Ahmed Al Hilli *Model Driven ADMM-Net for Multi-Target Detection in WSN* ***PRESENTER: Zainab Al Bakaa***
13:20	Afreen Sorathiya, Jinal Mehta, Parth Kudale, Hetvi Bhanushali, Maria Sorathiya, Twisha Mehta, Harikrishna Suresh and Manha Sorathiya *AI-Driven Hybrid Graph-Ensemble Approach for Credit Risk Classification*
13:30	Afreen Sorathiya, Jinal Mehta, Jay Vithlani, Maria Sorathiya, Twisha Mehta, Harikrishna Suresh, Manha Sorathiya and Mohamed Ayaan Gubitra *Hate Speech Detection in Hindi Using Neural Networks*
13:40	Popescu Gheorghe and Nicu Bizon *Optimization of automatic control for biological processes in wastewater treatment plants* ***PRESENTER: Popescu Gheorghe***

July 3, 17:00-19:00:
ECAI Gala Cocktail

- ✓ All times are in Romanian local time (Europe/Bucharest, UTC+2 during standard time and UTC+3 during daylight saving time).
- ✓ Presentations in the E-session sections are made via Teams. Connection links will be available until June 22, 2026
- ✓ There is no required template for the presentation.
- ✓ All sections with physical attendance are held at the Central Library of the National University of Science and Technology Politehnica Bucharest (2nd and 3rd floors) - https://maps.app.goo.gl/eooQnBofesTerhCY6
- ✓ The conference desk is located on the 2nd floor of the Central Library of the National University of Science and Technology Politehnica Bucharest

ECAI 2026, July 2 – July 3, 2026, Timetable and Program

Date	Time	Session or activity		Location
July 2	8:00-8:50	**Authors Registration**		Desk Hall
	9:00-9:40	**ECAI Opening Ceremony**		Room 1
	9:40-11:00	**ECAI KEYNOTE LECTURES I**		Room 1
	11:00-11:00	**Coffee break**		Coffee break hall
	11:40-13.45	**Scientific Communications Session of the C.R.I.F.S.T. - Romanian Academy (Arges Branch)**		Room 2
	11:40-12.30	**Round table: Improving the Fuel Cell Hybrid Electric Vehicle Drivetrain by Implementing Novel Optimal Real-Time Power Management Strategy**		Room 3
	12:15-13.45	**Visit to CAMPUS (Center for Advanced Research for Innovative Materials, Products and Processes)**		CAMPUS- location
	14:00-15.30	**Lunch**		Coffee break hall
	15:30-18:00	**ECAI Afternoon sessions**		
		Artificial Intelligence & Machine Learning		Room 1
		Robotics, Autonomous Systems & UAV		Room 2
		Power Electronics & Electrical Drives		Room 3
		Energy Systems		Room 4
		Embedded Systems, FPGA & IoT		Room 5
		Poster Session 1		Poster Hall
		E-Session_1	https://teams.microsoft.com/meet/360918561869859?p=JRXcpy6SgrVO2dc7oo	
		E-Session_2	https://teams.microsoft.com/meet/321392341784998?p=v429wWSsl7ae0lSh7h	
		E-Session_3	https://teams.microsoft.com/meet/3746025598509 18?p=DSHJe1vRgu2Ib6UPz	
		E-Session_4	https://teams.microsoft.com/meet/389725318868348?p=Dn1lLoaTHX2Vbtc9eF	
		E-Session_5	https://teams.microsoft.com/meet/341212536308665?p=SRNBTA7UjbW5BOCPT	
		E-Session_6	https://teams.microsoft.com/meet/329530885242925?p=VFsdpkfYLacbzxvUAH	
	19.00-21.00	**ECAI Dinner**		Restaurant

July 3	9:00-9:30	**Authors Registration**		Desk Hall
	9:30-11:00	**ECAI KEYNOTE LECTURES II**		Aula
	11:00-11:30	**Coffee Break & Brokerage events**		Coffee break hall
	11:30-14:00	**ECAI morning sessions**		
		Artificial Intelligence Applications		Room 1
		Electromagnetic Compatibility & Biocompatibility & Communication		Room 2
		Control Systems & Industrial Automation		Room 3
		Renewable Energy & Smart Grids		Room 4
		Cybersecurity, Communications & Software Engineering		Room 5
		E-Session_7	https://teams.microsoft.com/meet/362463968559153?p=9DAvUeOAN3ACxrNMfE	
		E-Session_8	https://teams.microsoft.com/meet/342403473816449?p=iqV7dzaup7HJWyly0M	
		E-Session_9	https://teams.microsoft.com/meet/398466262174335?p=fNUs1lZhquvra6iQni	
		E-Session_10	https://teams.microsoft.com/meet/364499325769 18?p=U7qQCj7ZkTkMVOpDCA	
		E-Session_11	https://teams.microsoft.com/meet/3835496487827?p=Evz13mobwWQeBrXxw2	
	14:00-15:30	**Lunch**		Coffee break hall
	15:30-16:00	**ECAI Closing Solemnity**		Room 1
	16:30-19:00	**ECAI Gala cocktail**		Restaurant