



2nd International Conference on Advances in Electrical, Electronics, Energy, and Computer Sciences

CONFERENCE PROGRAM

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October 24-25, 2025 | Skopje - North Macedonia

October 24, 2025				
Time (GMT+2)	Session	Meeting ID	Password	Join
08:30 am - 10:30 am	Session 1 (ROOM1)			
12:30 pm - 3:00 pm	Session 2 (ROOM1)			

October 25, 2025				
Time (GMT+2)	Session	Meeting ID	Password	Join
08:00 am - 11:00 am	Session 3 (ROOM1)			
08:00 am - 11:00 am	Session 4 (ROOM2)			
12:30 pm - 3:00 pm	Session 5 (ROOM1)			

Session 1 (ROOM1)	Date: October 24, 2025
Chair: Oğuzhan Pektezel	Time (GMT+2): 08:30 am - 10:30 am
Paper	Author (s)
3 - Industrial Symbiosis Improvement With Digital Twins	Aleksandar Anastasovski
75 - Data Complexity-Oriented Classification of Multispectral Remote Sensing Imagery via Machine and Deep Learning Approaches	Berrin İşlek , Hamza Erol
34 - Customer Review Summarization in Production with Large Language Models for E-Commerce Platforms	Hikmet Bahadır Sahin , Mustafa Furkan Eseoglu, Berk Taskin, Aysenur Karadag, Ömer Faruk Bal
49 - User-Centric Product Discovery for Personalized E-Commerce Recommendations	Mustafa Keskin, Enis Teper , Sinan Keçeci
57 - NLP-Based Query Interface for InfluxDB: Designing a Hybrid Architecture with SpaCy and Large Language Model	Fatih Kaya , Pinar Kirci
4 - Traffic Monitoring using AI : Overview and a Case Study	Shkelqim Sherifi, Festim Halili , Merita Kasa-Halili
38 - Emotion Recognition Using Machine Learning Models On EEG Signals	Gizem Yıldız , Önder Yakut
20 - The environment and wind energy production by analyzing noise filtering in wind signals to improve the efficiency of energy systems	Naim Baftiu, Ana Atanasova, Tatjana Pacemska , Petre Lameski
54 - Recognition of Mushroom Species Using Few-Shot Learning Method with a Siamese Network	Göktürk Öztürk , Köksal Erentürk

Session 2 (ROOM1) - Click for Join	Date: October 24, 2025
Chair: Ebubekir Yasar	Time (GMT+2): 12:30 pm - 3:00 pm
Paper	Author (s)
13 - Assessment of Pregnancy Outcomes in Gynecological Cancer Patients Undergoing Fertility-Sparing Surgery with Machine Learning Techniques	Jale Sade , Hale Gonce Kocken, Nazli Albayrak, Mehmet Tunc, Mete Gungor, Ali Ayhan
36 - A Hybrid Framework for Conversion-Optimized Query Suggestion in E-commerce Search	Melis Umut Öztürk , Mustafa Keskin, Selçuk Açıklın, Halil İbrahim Ergül
43 - A Novel Method For Word Segmentation And Spell Correction In E-Commerce Search Engines	Melis Umut Öztürk, Mustafa Keskin, Muhammed Bera Kaya
47 - Temporal Popularity-Based Recommender Systems for E-Commerce: A Comprehensive Evaluation	Mustafa Keskin , Enis Teper, Sinan Keçeci
46 - Predicting Purchase Frequency in E-Commerce: Hybrid Machine Learning Approach	Nilay İşeri , Mustafa Keskin, Onur Arda Raştak
25 - Comparative Performance Analysis of Ensemble and Attention-Based Deep Learning Methods for Depression Classification	Nur Sultan Yüce , Abdullah Ammar Karcıoğlu, Mesut Karabacak
7 - Impact of Signal Segmentation on EEG-Based Seizure Detection: A Comparative Time-Frequency Analysis	Nuri İkizler , Gunes Ekim
42 - A Multi-Factor Image-Based Authentication Scheme for Secure Facilities	Qutaiba Albluwi , Sara AlSatari, Anfal Alqudah, Liyan AlQadome
9 - A Machine Learning Model for Estimating Daily Rainfall in Mediterranean Climate	Ali Karah Bash, Amin Gharehbaghi, Shahaboddin Daneshvar
41 - Uncovering Student Engagement and Performance in Applied AI in Finance: A Learning Analytics Approach	Neslihan Ademi , Aleksandra Porjazoska Kujundziski, Damir Rahmani

Session 3 (ROOM1) - Click for Join Chair: Ebubekir Yasar	Date: October 25, 2025
	Time (GMT+2): 08:00 am - 11:00 am
Paper	Author (s)
39 - Comparative Evaluation of Zero-Shot, Latent Dirichlet Allocation, and Similarity-Based Methods for Automatic Topic Labeling in News Texts	Dilara Adıgüzel , Işıl Karabey Aksakallı, Burcu Yalçiner
21 - Carbon Sequestration and Oxygen Production with Microalgae: Digital Bioreactor Design and Experimental Results	Mehmet Emin Korkusuz, Nihal Arı Korkusuz, Dilara Gündüz , Ayşe Sena Türeyen
24 - Future Vibration Estimation Using LSTM for Condition-Based Maintenance of Aircraft Systems	Hüseyin Şahin , Ömer Faruk Göktaş
37 - Flexible Production Systems (FPS) for Engineering and Technology Efficiency	Ionela Luminita Canuta (Bucuroiu) , Adrian Ioana, Ileana Mariana Mates, Augustin Semenescu, Massimo Pollifroni
48 - Water Cashier Offices Location Optimisation Using Machine Learning-Based Clustering Approaches: A Case Study of Ordu Altınordu	Kübra Selvi , Murat Taşyürek, Celal Öztürk
27 - CineFinder: A Movie Recommendation System Using Visual and Textual Deep Features	Mehmet Tuğrul Sarıççek, Rukiye Orman , Murat Dener
29 - Who Completes, Who Gets a Certificate? Digital Traces and Learning Outcomes in MOOCs	Rukiye Orman , Hasan Cakir, Nergiz Ercil Cagiltay
73 - An Asymmetric Minimal Component Count Three-Phase Multilevel Converter Suitable for PV Applications	Samuel Nii Tackie , Zubeir Mohamed Nur , Ozgur Cemal Ozerdem, William Olurotimi Falana
60 - Additive Multiply Module Architecture for Low Power 8-Bit Multipliers in VLSI	Vasudeva G
30 - Evaluation of Solar Resource Availability and Smart Load Scheduling for Residential Buildings	William Olurotimi Falana , Ikechukwu Samuel Obidi, Samuel Nii Tackie
63 - High Order Sliding Mode Control for Power Regulation: Comparative Insights with PI Controller CUK Converter Implementation	Muhammed Mahho , Mehmet Yılmaz, M. Fatih Çorapsız

Session 4 (ROOM2) - Click for Join Chair: Oğuzhan Pektezel	Date: October 25, 2025
	Time (GMT+2): 08:00 am - 11:00 am
Paper	Author (s)
19 - Short-Term Wind Energy Production Forecasting and Target Plant Selection Based on Meteorological Data Using Empirical Mode Decomposition	Israfil Karadöl
31 - Analysis of Power Quality in Industrial Environments Using Synchronous Machines: A Case Study	George-Andrei Marin , Marian Gaiceanu
44 - TabM vs. Traditional ML for E-commerce Product Ranking: A Multi-Signal Framework for Frequently Bought Together Recommendations	Dilge Karakaş , Enis Teper, Okan Kaya
55 - A ROS and MATLAB/Simulink Framework for Modeling and Control of a Robotic Manipulator	Antonia De Amorim , Vladimir Hristov
65 - Analysis of Battery Management System	George-Andrei Marin , Marian Gaiceanu , Silviu Epure
69 - Visual SLAM-Based Position Estimation for UAVs in GPS-Denied Environments	İsmail Yavuz , Egnar Özdikililer
76 - Development and Implementation of a 2D Vision-Guided Robotic System for Industrial Inspection and Manipulation	Vladimir Hristov , Dimitar Pepedziev
56 - Development of a Remote Control Interface for a Mobile Robot using ROS and LabVIEW	Vladimir Hristov , Antonia De Amorim
8 - Generative AI for Synthetic Sensor Data Generation in Embedded Systems	Ali Berkol
51 - Integrated Analysis of Student Surveys with Machine-Learning	Neli Kalcheva , Maya Todorova, Evgeniya Rakitina-Qureshi, Ivo Rakitin, Hristo Nenov, Dimitrichka Nikolaeva

Session 5 (ROOM1) - Click for Join Chair: Ebubekir Yasar	Date: October 25, 2025
	Time (GMT+2): 12:30 pm -3:00 pm
Paper	Author (s)
2 - Enhancing Network Security with RNA-Based Intrusion Detection and Cuckoo Search Algorithm	Omar Rashid , Hind Moutaz Al-Dabbas, Humam Al-Shahwani
74 - Simulation-Based Analysis of A*, RRT*, Genetic Algorithm, and Ant Colony Optimization for Autonomous Robot Path Planning in Obstacle-Dense Maps	Omer Ba Faqas , Necati Aksoy, Oğuz Mısıır
45 - A Benchmark Study on Classical Data Augmentation for Image Classification with Custom CNNs	Fatma Çakıroğlu , Ali Durmuş, Ercan Karaköse, Rifat Kurban, Selami Parmaksızoğlu
33 - Digital Twin Technology in Vocational Education in Machinery: Processes for Digital Twin Transformation and CNC Router Case Study	Güllü Akkaş , Feyza Gürbüz
53 - Application of the simplex method in tasks for determining an optimal production program	Maya Todorova , Ginka Marinova, Neli Kalcheva
18 - Explainability-Based Artificial Intelligence Governance: A Legal Framework Analysis of Ethical and Social Impacts	Bulut Keken , Cemal Aktürk
14 - A Literature Review on Digital Restoration: Preservation of Historic Buildings with HBIM, Artificial Intelligence and Virtual Reality	Dilan Kakdaş Ateş , Sevilay Akalp
28 - RCS-Based Secure Communication Protocol Design and Intrusion Detection Mechanisms for Wireless Sensor Networks in Smart Grids	Selçuk Yılmaz, Abdullah Orman , Murat Dener
62 - Solar Energy Advancements and Deployment Strategies in Kwara State, Nigeria: A Comprehensive Review	Adeleye Adeolu Otepolo , Samuel Nii Tackie, William Olurotimi Falana, Kamil Dimililer
16 - Energy Selective Surface Superstrate on Antenna both Gain Enhancement and HPM Protection	Adem Kocyigit , Burak Çelik, Mahmut Burak Karadeniz, Onur Arsalı, Ebru Efeoğlu, Bahattin Türetken