



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	Chair	Meeting ID	Password	Join
08:30 am - 10:30 am	Session 1 (ROOM1)	Oğuzhan Pektezel	875 0520 5827	920070	Click
12:30 pm - 3:00 pm	Session 2 (ROOM1)	Ebubekir Yasar	815 6399 6347	220777	Click

October 25, 2025

Time (GMT+2)	Session	Chair	Meeting ID	Password	Join
08:00 am - 11:00 am	Session 3 (ROOM1)	Ebubekir Yasar	819 0090 8778	443799	Click
08:00 am - 11:00 am	Session 4 (ROOM2)	Oğuzhan Pektezel	824 2258 7584	38767	Click
12:30 pm - 3:00 pm	Session 5 (ROOM1)	Ebubekir Yasar	899 3925 2082	800703	Click

Session 1 (ROOM1) - Click for Join Chair: Oğuzhan Pektezel		Date: October 24, 2025 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 Eseoğlu, Berk Taskin, Aysenur Karadağ, Ömer Faruk Bal	
43 - A Novel Method For Word Segmentation And Spell Correction In E-Commerce Search Engines	Melis Umut Öztürk, Mustafa Keskin, Muhammed Bera Kaya	
57 - NLP-Based Query Interface for InfluxDB: Designing a Hybrid Architecture with SpaCy and Large Language Model	Fatih Kaya, Pinar Kirci	
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 Chair: Ebubekir Yasar		Date: October 24, 2025 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 Goncse 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 Açıklan, Halil İbrahim Ergül	
49 - User-Centric Product Discovery for Personalized E-Commerce Recommendations	Mustafa Keskin, Enis Teper , Sinan Keçeci	
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 Karcioğlu, 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		Date: October 25, 2025
Chair: Ebubekir Yasar		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 Adigüzel , Işıl Karabey Aksakallı, Burcu Yalçınır	
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, Harun Kınacı	
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		Date: October 25, 2025
Chair: Oğuzhan Pektezel		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	
65 - Analysis of Battery Management System	George-Andrei Marin , Marian Gaiceanu, Silviu Epure	
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		Date: October 25, 2025
Chair: Ebubekir Yasar		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 Mısır	
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 - RC5-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	