



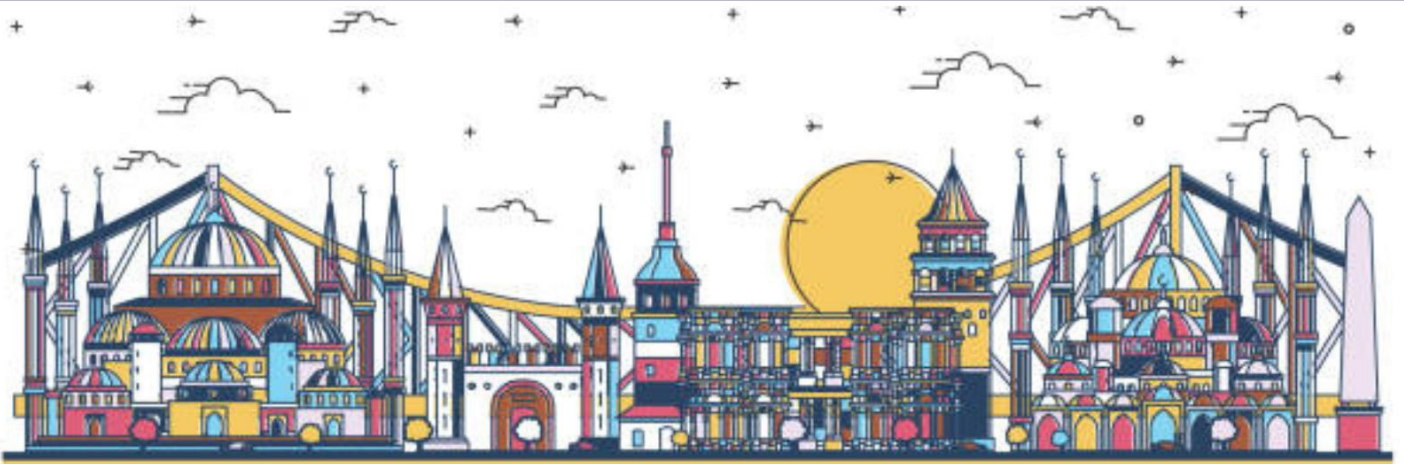
Sixth International Conference on
**ELECTRICAL, COMMUNICATION AND
COMPUTER ENGINEERING
(ICECCE 2025)**

ISTANBUL, TURKIYE

27-28 August, 2025
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CONFERENCE PROGRAM BOOKLET
IEEE Conference Record No: 67514

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**ALTINBAS
UNIVERSITY**



IEEE

Türkiye Section



Day 1: 27 August 2025 – Program Overview

Time	ROOM A (Physical)	
08.30-09.30	Arrival of Participants/Guests	
09.30-10.00	Welcoming Speech by Conference Chair	
	Opening Speech by General Chair	
	Montage/Promo Video, Souvenir Distribution, Group Photography Session	
10.00-10.30	Plenary Session 1: Keynote Speaker	
10.30-11.00	TEA BREAK	

PHYSICAL SESSIONS		VIRTUAL SESSIONS	
Time	ROOM A (Physical)	ROOM B (Physical)	ROOM C (Virtual)
11.00-12.00	Parallel Session 1A: AI, Neural Networks, Deep Learning and Intelligent Systems (4)	Parallel Session 1B: Signal and Image Processing Techniques, Smart Grids & Energy Management, Education & Technologies (E-learning), Mixed Topics (5)	Parallel Session 1C: AI, Neural Networks, Deep Learning and Intelligent Systems (4)
12.00-13.00	Parallel Session 2A: Software Engineering, Information and Network Security, Communication Systems (4)	Parallel Session 2B: AI, Neural Networks, Deep Learning and Intelligent Systems (5)	Parallel Session 2C: Mixed Topics, Education & Technologies (E-learning) (4)
13.00-14.00	LUNCH BREAK/PRAAYER BREAK		
14.00-14.30	Plenary Session 2: Keynote Speaker		
14.30-15.00	TEA BREAK		

VIRTUAL SESSIONS			
Time	ROOM A (Virtual)	ROOM B (Virtual)	ROOM C (Virtual)
15.00-16.15	Parallel Session 3A: AI, Neural Networks, Deep Learning and Intelligent Systems (5)	Parallel Session 3B: Antenna & Wave Propagation, Modern Communication Technology (5)	Parallel Session 3C: Information and Network Security & Communication (6)
16.15-16.30	TEA BREAK		
16.30-18.00	Parallel Session 4A: AI, Neural Networks, Deep Learning and Intelligent Systems (6)	Parallel Session 4B: Antenna & Wave Propagation, Modern Communication Technology (6)	Parallel Session 4C: Biomedical Engineering & Systems (6)

Day 2: 28 August 2025 – Program Overview

VIRTUAL SESSIONS				
Time	ROOM A (Virtual)	ROOM B (Virtual)	ROOM C (Virtual)	ROOM D (Virtual)
09.30-10.00	Plenary Session 3: Keynote Speaker			
10.00-11.30	Parallel Session 5A: AI, Neural Networks, Deep Learning and Intelligent Systems (6)	Parallel Session 5B: Smart Grids & Energy Management, Alternate Energy Systems (7)	Parallel Session 5C: AI, Neural Networks, Deep Learning and Intelligent Systems (6)	Parallel Session 5D: AI, Neural Networks, Deep Learning and Intelligent Systems (7)
11.30-11.45	TEA BREAK			
11.45-12.15	Plenary Session 4: Keynote Speaker			
12.15-13.30	Parallel Session 6A: AI, Neural Networks, Deep Learning and Intelligent Systems (5)	Parallel Session 6B: Developments in Aviation Technologies, Mixed Topics (5)	Parallel Session 6C: Signal and Image Processing Techniques (5)	Parallel Session 6D: Mixed Topics (5)
13.30-14.00	LUNCH BREAK/PRAAYER BREAK			
14.00-14.20	Closing Session: Best Paper Announcement Closing Remarks by Conference Chairs Participants' Feedback Q/A Session			

Day 1: 27 August 2025

PLENARY SESSION 00

Session 00: Opening Session

Room A

- | | |
|-------------|---|
| 09.30-10.00 | <ul style="list-style-type: none">• Welcoming Speech by Conference Chair: <i>Prof. Dr. Galip CANSEVER, Dean, School of Engineering and Natural Sciences, Altinbas University</i>• Opening Speech by General Chair: <i>Prof. Dr. Jamshaid Ali Khan, Vice Chancellor, University of Buner</i>• Montage/Promo Video, Souvenir Distribution, Group Photography Session |
|-------------|---|

PLENARY SESSION 1

Plenary Session 1: Keynote Speaker

Room A

10.00-10.30	Prof. Dr. Doğu Çağdaş ATILLA	Title: <i>Accelerating ADAS Development: Integrating Testing, Validation, and Simulation with MATLAB</i>
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10.30-11.00	TEA BREAK	
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PARALLEL SESSIONS 1

Parallel Session 1A: AI, Neural Networks, Deep Learning and Intelligent Systems

Room A

Time	Authors (Presenter)	ID	Title
11.00-12.00	Safaa Hriez	65	Efficient Temperature Forecasting for High-Temperature Data Centers
	Muhammad Hassan Jamal, Jawad Ahmad, Muhammad Hanif , Muazzam A. Khan, Tamara Zhukabayeva, Muhammad Shahbaz Khan	70	A Multi-Scale CNN and Feature Fusion Approach for Enhanced Intrusion Detection in IoT Networks
	Shaidah Jusoh , Weiyu Sun	92	Natural-Search: Integrating Chatbot and Document Classifier for Efficiency and Experience
	Atif Mahmoud, Abdulmajeed Alshahrani, Atif Mahmood , Amil Daraz, Abrar-UI-Haq Baluch, Ayman Muhammad Abdallah	143	Smart Real-Time Obstacle Avoidance for Planetary Rovers Using Ultrasonic Sensing: Design, Hardware Integration, and Validation

**Parallel Session 1B: Signal and Image Processing Techniques, Smart Grids & Energy Management, Education & Technologies (E-learning), Mixed Topics
Room B**


Time	Authors (Presenter)	ID	Title
11.00-12.00	Selcuk Okdem, Hongchi Shi	57	Improved Image Transmission in IEEE 802.15.4 Based Wireless Sensor Networks: Optimizing DCT Compression Ratios
	Seyed Davood Mousavi , Thomas Schulte	85	Cascaded Optimization of PV and Battery Sizing under Dynamic Cost and CO2 Signals
	Hejab AL Fawareh , Clement Wong	93	Detection System for a Left-Behind Child in a Vehicle
	Asma Al-Fakhore	218	A Regression Framework for Student Next-Semester GPA Prediction
	Balqees Aldabaybah , Azzam Sleit	171	A Comparative Study of Quicksort Algorithm Variants: An Empirical Performance Analysis

**Parallel Session 1C: AI, Neural Networks, Deep Learning and Intelligent Systems
Room C**


Time	Authors (Presenter)	ID	Title
11.00-12.00	Leela Prasanthi Chekka, Sushma Gandham , Kishore Kumar T	37	AI-Based Assistive System For Correcting Dysgraphia And Dyscalculia In Children
	Abolfazl Babaei, Ali Nasr Esfahani, Armin Aghajani, Vahab Khoshdel	56	Challenges and opportunities , the future of using artificial intelligence in the use of applications and human resources in power systems
	Reem Salem , Buthaina Aidaros, Feras Al-Obeidat	69	Exploring Deep Learning Models for Protein Sequence Classification: A Comparative Study
	Shahabuddin Muhammad, Nazeeruddin Mohammad	78	Travel Smart: Exploring the Resilience of Multi-Modal Urban Routes Under Congestion

PARALLEL SESSIONS 2


Parallel Session 2A: Software Engineering, Information and Network Security, Communication Systems Room A

Time	Authors (Presenter)	ID	Title
12.00-13.00	Akiyoshi Wakatani , Souma Hase	49	Performance evaluation of the Julia language for recursive solution methods
	Amartya Das , İlhami Ünal, Avishek Nag, Robert Staszewski	119	Investigation of A Tunable X-Band Absorber for RIS-Assisted Energy Harvesting Applications
	Raghda Hriez , Ali Hadi, Akram Baeakat , Jalal Omer, Qabas Ahmad, Ayat Droos	130	Anomaly Detector for HTTP Protocol
	Obrina Briliyant , Amir Javed, Yulia Cherdantseva	204	Network Packet Security Analysis Chatbot using SQL-RAG Approach and Cybersecurity-Tuned LLM
13.00--14.00	LUNCH BREAK 		

Parallel Session 2B: AI, Neural Networks, Deep Learning and Intelligent Systems Room B

Time	Authors (Presenter)	ID	Title
12.00-13.00	Zaid Adil Abdulsahib Al-Qazzaz , Yasin Paşa, Elham Pashaei	174	Enhancing Monthly Rainfall Prediction Using Stacked Ensemble Learning and SHAP Analysis: A Comparative Study
	Abdulaziz Almaslukh	180	Ad Hoc LLM-to-LLM Evaluation Framework
	Ing Teck Phang, Asnor Juraiza Ishak , Siti Anom Ahmad, Tomohiro Shibata	186	Evaluating AI-Assisted Motion Tracking for Knee Rehabilitation: A Comparative Analysis of You Only Look Once version 8 (YOLOv8) and MediaPipe
	Necip Gözüaçık , Engin Sağ, Onur Adıgüzel, Adem Tekinbaş, Sibel Malkoş	187	Short-Term High-Resolution Prediction of Airport Baggage Volume Using AI-Based Approaches
	Higor Rosse , Elisabete Freitas, Estefânia Gonçalves, Khadija Sabiri	256	Design and Implementation of Optimized Decision Models for Acorn Supply Chain
13.00--14.00	LUNCH BREAK 		

**Parallel Session 2C: Mixed Topics, Education & Technologies (E-learning)
Room C**

Time	Authors (Presenter)	ID	Title
12.00-13.00	Mohammad Abrar , Walid Aboraya, Kabaly P Subramanian, Rawad Abdulghafor, Yousuf Al Husaini, Mohammed Al Husaini	102	Adaptive Intelligence: AI-Powered Personalized Learning and Dynamic Assessments
	Israt Tarannum , Zannatul Ferdousy Mouri, Farseem Mannan Mohammedy	110	Cross Border Energy Grid in South Asia: A Pathway to Achieve Clean and Affordable Energy Transition
	Syed Zarak Shah , Mansoor Iqbal, Samain Abid, Usama Abid, Muhammad Osama Malik, Farooq Azam	115	Scalable Anomaly Detection in Big Data Logs Using Deep Autoencoders
	Khulisi Mphuthi, Khaled Aboalez , Tebello Mathaba	163	Industrial Control Networks (ICN) in Water Purification Systems: A South African Case Study
13.00--14.00	LUNCH BREAK 		


PLENARY SESSION 2


Plenary Session 2: Keynote Speaker

Room A


14.00-14.30	Prof. Ts. Dr. Mardeni Bin Roslee, SMIEEE	<i>Title: Handover Optimization in Urban UAV-Assisted HetNets</i>
14.30-15.00	TEA BREAK 	

PARALLEL SESSIONS 3

Parallel Session 3A: AI, Neural Networks, Deep Learning and Intelligent Systems			
Room A			
Time	Authors (Presenter)	ID	Title
15.00-16.15	Ghulam Mustafa , Claudio Sartori, Awais Anwer, Abbas Hyder, Muhammad Adnan, Aurangzeb Magsi, Engr. Muhammad Younis	99	SmartSafetyNet: A Hybrid Deep Learning Model for Predicting Traffic Accident Severity and Enhancing Road Safety Measures
	Krassimira Stoyanova , Ivan Blagoev	100	Optimization of Coin Choices in UTXO-Based Digital Currencies using RIES
	Ameer Hamza , Robertas Damaševičius, Rytis Maskeliunas	105	BM-SegTransNet: A Novel Architecture for the Brain Metastases Tumor Segmentation using MRI-Scans
	Touseef Yaqoob , Neil Buckley, David Reid	112	Multimodality Point-Image Fusion for 3D Object Detection via Projections from Voxels, Proposals, and Multi-level Image Features
	Anjali Kadam , Prakash Devale	113	Development of Artificial Intelligence Model for Precise Flood Prediction to Avoid Natural Disaster
16.15-16.30	TEA BREAK 		

Parallel Session 3B: Antenna & Wave Propagation, Modern Communication Technology			
Room B			
Time	Authors (Presenter)	ID	Title
15.00-16.15	Alexey Sosunov, Andrey Altyntnikov, Roman Platonov, Andrey Komlev	106	Mode Purity and Spectrum of OAM Modes Formed by Stepped Spiral Phase Plates
	Roman Platonov, Alexey Sosunov, Andrey Altyntnikov, Andrey Komlev	107	Binary Spiral Phase Plates with Pulse-Width Modulated Phase Profile for OAM Spectrum Formation
	Cho Thet Htar , Takafumi Fujimoto, Chai-Eu Guan	108	Design and Development of 4-elements Printed Inverted-F MIMO Antenna
	Deniz Karhan , Merve Güllü, Sümeyyenur Karahan, Sedat Çimen, Mustafa Serdar Osmanca	111	Goal-Oriented Semantic Communications for 6G: From Theory to Applications
	Sergey B. Panin, İlhami Ünal , Aysun Sayıntı, Tugba Haykir Ergin	116	Antenna Investigations on Millimeter Wave Near Field Scanning for Gun Detection
16.15-16.30	TEA BREAK 		

**Parallel Session 3C: Information and Network Security & Communication
Room C**

Time	Authors (Presenter)	ID	Title
15.00-16.15	Cemal Serter , Baris Celiktas	122	Cross-Layer Ransomware Detection Framework for SDN Using HMM, LSTM, and Bayesian Inference
	Nurefşan AK , Reyhan Dede, İbrahim Yazıcı, İsmail Duru, Merve Güllü	228	AI-Driven Security in 6G
	Reyhan Dede , Merve Güllü, İbrahim Yazıcı	229	Artificial Intelligence and Machine Learning For Network Slicing in 6G
	Nurefşan AK , İsmail Duru, Melike Mert	230	Artificial Intelligence for Non-Terrestrial-Networks in 6G Technology
	Sedat Çimen , Mücahit Altıntaş, İsmail Duru, Sümeye Nur Karahan, İbrahim Yazıcı	233	Large Language Models in 6G Radio Access Networks
	Mohd Imran Md Yusop, Nazhatul Hafizah Kamarudin , Mohammad Kamrul Hasan	77	A Unified FIDO2-Based Passkey Authentication Model for Seamless User Access
16.15-16.30	TEA BREAK 		

PARALLEL SESSIONS 4

**Parallel Session 4A: AI, Neural Networks, Deep Learning and Intelligent Systems
Room A**

Time	Authors (Presenter)	ID	Title
16.30-18.00	Arjun Kaarat , Venkata Jaipal Reddy Batthula, Richard Segall	117	Comparative Analysis of Edge vs. Cloud Contact Center Deployments: A Technical and Architectural Perspective
	Zaid Abdulkareem Hussein, Aws Abdullah, Enas Zayid, Haneen Saleh, Anas Fouad Ahmed	135	A Hybrid Deep Learning Approach for Fault Classification in Electric Vehicle Drive Motors
	Md Ali Azad	170	Developing an Emotionally Intelligent Human-Robot Interaction System with Furhat (EmotionBot): A Multimodal Deep Learning Approach
	Vinay Singh , Prashant Gupta, DhirajKumar Pathak	173	Artificial Intelligence-Driven Forecasting Models for Demand Forecasting in Inventory Optimization
	Ahmed Aman Ibrahim, Hamad Mansour Alawar, Abdunasser Abbas Zehi, Ahmed Mohammad Alkendi, Bilal Shafi Ashfaq Ahmed Mirza, Shan Ullah, Ismail Lujain Jaleel, Hassan Ugail	191	A Lightweight Face Quality Assessment Framework to Improve Face Verification Performance in Real-Time Screening Applications
	Maliha Hossain , Nazrul Islam Mondal	195	Student Dropout Forecasting and Feature Analysis through Machine Learning Algorithms

**Parallel Session 4B: Antenna & Wave Propagation, Modern Communication
Technology
Room B**

Time	Authors (Presenter)	ID	Title
16.30-18.00	Bernard Tonderayi Mangara	120	Optimal Assignment of Interchangeable Components in Multi-State Network Systems for Enhanced Reliability and QoS
	Mehnza Hameed, Gul Sanga, Iftihar, Shafqatullah Khan, Ammar Nasir, Sardar Ali	121	Comparative Analysis of RF Signal Performance in Mobile Communication Systems
	Logan Sherlock , Rahma Shahid, Renu Balyan	123	Reinforcement Learning Environment for 5G-Enabled IoT Devices Resource Management
	İlhami Ünal , Robert Bogdan Staszewski, Xiulong Bao, Elena Blokhina, Tugba Haykir Ergin	125	Investigations on Low Loss Millimeter Wave Half Height and Antipodal Finline Microstrip to Waveguide Transitions in Comparison
	MOUSSA MOINDZE SOIDRIDINE , MASSAMBA LO, SAMBA SOUARE, KARIM KONATE	132	An Algorithm for Determining and Reducing Durations during the management and Reconfiguration of high-availability distributed systems in NGN, Full IP, Edge Computing, Cloud Computing and AI Infrastructures
	Talat Kepezkaya	263	LLWT-Enhanced Q-CSK ZT DFT-s-OFDM for Visible Light Communication

**Parallel Session 4C Biomedical Engineering & Systems
Room C**

Time	Authors (Presenter)	ID	Title
16.30-18.00	Sarah Iodhi , Hamza Ibrahim, Infal Rizwan, Atiqa Saleem	81	Enhancing Human-Computer Interaction through Facial Electromyography: Analyzing Frontalis and Masseter Muscle Signals
	Mie Ko , Toshifumi Moriyama	89	Simulation Analysis on Separation of Vital Signals of Adjacent Targets By Using FastICA
	Ahmad Rafiqan , Rachmad Setiawan, Tri Arief Sardjono, Rezki El Arief	101	A Novel TSST-Based Multimodal Dataset for Non-Contact Stress Assessment: Synchronous Integration of Computer Vision and Audio Analysis
	Syed Muhammad Zubair Ali, Hammad Munawar, Atif Mahmood	134	Smart Estimation of Vertical Inertial Dynamics for Inertia Compensation in Medical and Space Training Systems
	Saleh Alzahrani , Lojain Almansori, Danah Al-hetelah, Ahad Alshammari, Shahad Alabbad, Sara Alsubaie, Bushra Melhem	152	A Deep Learning-Based Wearable Bracelet for Real-Time Clonic Seizure Detection Using Accelerometer Data
	Khaled Abusharar , Awad Albrahim, Mohammed Alharbi, Saleh Alzahrani	181	Designing an Exo-Suit for Enhanced Mirror Therapy in Stroke Rehabilitation

Day 2: 28 August 2025

PLENARY SESSION 3

Plenary Session 3: Keynote Speaker

Room A

09.30-10.00


Assoc. Prof. Dr. Shehzad
Ashraf Chaudhry

Title: *Intelligent Security: Navigating the
Cyber Landscape with AI*

PARALLEL SESSIONS 5

Parallel Session 5A: AI, Neural Networks, Deep Learning and Intelligent Systems


Room A

Time	Authors (Presenter)	ID	Title
10.00-11.30	Ali Kanburoğlu	196	Brand-Level Sentiment Analysis in the Telecom Domain Using Large Language Models
	Kunal Goyal, Dhiraj Matlani, Surbhit Pratik	200	Modelling Electric Vehicle Energy Consumption for Smart Grid Management using AI
	Noha Alnazzawi	201	BERTDisComp: A Clinical Language Model for Detecting Disease Complications in EHRs
	Akinyemi Arabambi , Bisola Kayode, Olamide Faroun, Fatimat Okeleye, Emereuwaonu Ezechukwu, Abiola Oludotun, Oluwatosin Oyeladun, Gabriel Aiyeetan	208	Decision Alignment Protocols: Harmonising AI Agents for Comprehensive Market Assessment
	Onyekachukwu Ojumah , Arinzechukwu Madukasi, Nabeela Adebola, Olusegun Akinfenwa, Timileyin Daso, Ilemona Abutu, Akinyemi Akintola, Folasayo Agunbiade	209	MVReID-Former: Multi-View Vision Transformer for Cross-Camera Person and Vehicle Re-Identification in Surveillance Networks
	Merve Güllü , Reyhan Dede, İsmail Duru	211	Telecom Customer Churn Prediction: In-Depth Analysis with Artificial Intelligence Algorithms and Explainable Artificial Intelligence
11.30-11.45	TEA BREAK 		


Parallel Session 5B: Smart Grids & Energy Management, Alternate Energy Systems Room B

Time	Authors (Presenter)	ID	Title
10.00-11.30	Kunqi Jia, Shuhan Zhang, Jiahui Wang , Jianxiong Tang, Muhammad Muzammal Islam, Tianyou YU	86	Virtual Inertial Hybrid Control Strategy for hydrogen-electric hybrid energy storage DC Power Station
	Omar Tawfeeq , Myasar Alattar	91	Analysis of Low Cost Conventional Drive Fed Three Phase Induction Motor
	Sbonelo Dlamini, Khaled Aboalez , Tebello Mathaba	109	Renewable Energy in Transition: Performance Challenges and Opportunities in South Africa
	Bilal Khan	118	Digital Twin-Enhanced Adaptive Control for Robust Power System Stability and Security
	Bernard Tonderayi Mangara	162	Finite Difference Post-Processing for Temperature Gradient Analysis in Solar Collector Systems
	Moon-suk Choi , Su-Kyung Kang	205	Design, Implementation, and Field Validation of a Hybrid Communication Advanced Metering Infrastructure (AMI) for Scalable IoT-Based Smart Grids
	Zahid Ullah , Giambattista Gruosso, Alda Scacciante, Sahibzada Muhammad Ali	225	Hybrid Renewable Energy Management Model for Sustainable Building Performance in Urban Environments
11.30-11.45	TEA BREAK 		

Parallel Session 5C: AI, Neural Networks, Deep Learning and Intelligent Systems Room C

Time	Authors (Presenter)	ID	Title
10.00-11.30	Mjd Albishri , Fatima Asiri	64	AI System for Arabic Deepfake Detection
	Melih Çoban , Abdulla Lutfi, Ayman El-Hag	71	Machine Learning-Based Condition Monitoring of Outdoor Insulators via Acoustic Signals
	Israt Tarannum , Mohammad Wasiful Haque, Farseem Mannan Mohammedy, MD Mobashirul Haque	131	A Hybrid Model for Forecasting Solar Electricity in Bangladesh
	Abdul Jabbar Ehsan, Syed Ahmad Saleem Bukhari, Balaj Khalid, Osama Khan, Hamza Yousaf, Kaleem Ullah	155	Stacked LSTM-XGBoost Ensemble Model for Accurate Short-Term Solar Power Forecasting
	Waseem Akram , Rasoul Ramezani, Abdul Jabbar Ehsan, Balaj Khalid, Syed Ahmad Saleem Bukhari, Haider Saleem	156	Short-Term Wind Power Forecasting via Temporal Convolutional Networks
	Mansoor Iqbal , Sahibzada Muhammad Ali, Syed Zarak Shah, Daniyal Shakir, Osama Khan, Inayat Ali	190	Machine Learning-Based Predictive Maintenance for Sustainable Smart Grids: A Case Study
11.30-11.45	TEA BREAK 		

**Parallel Session 5D: AI, Neural Networks, Deep Learning and Intelligent Systems
Room D**

Time	Authors (Presenter)	ID	Title
10.00-11.30	Hizbullah Qureshi, Atif Mahmood , Ayman Muhammad Abdallah	236	High-Resolution Waveform Design and Optimal Target Detection for Compressive Sensing Radar Using Genetic Algorithms
	Anil Sezgin	241	Ensemble Meta-Heuristic Feature Selection for Enhanced Network Intrusion Detection
	Yan Liu, Jihai Luo , Jerry Wu	242	A Real-time Fall Detection System Based on Vision
	Fadhel A. Jumaa, Hussein M. Hussein, Ahmed Mohammed Abdulkarem, Anas Fouad Ahmed Ahmed ,	252	A Deep Learning Approach Enhanced by Discrete Wavelet Transform for Precise Fault classification in Rotating Machinery Systems
	Roa Albasrawi , Muhammad Ilyas	259	YOLOv11x vs. RetinaNet: Deep Learning Models for Coronary Blockage Detection and Streamlit-Enabled Diagnosis
	Melike Mert	268	Artificial Intelligence in Human Mobility and Communication Modeling: A Comprehensive Survey
	Reta Gela, Michael Harris , Alim Saidkhodjaev, Jerry Wu	182	PowerGlide: An Open-Source Wheelchair Conversion System with Multi-Modal Control
11.30-11.45	TEA BREAK 		


PLENARY SESSION 4


Plenary Session 4: Keynote Speaker

Room A


11.45-12.15	Dr. Athar Waseem	Title: <i>Applications of Pattern Recognition and Compressive Sensing in 5G and 6G Communication Systems</i>
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PARALLEL SESSIONS 6


Parallel Session 6A: AI, Neural Networks, Deep Learning and Intelligent Systems Room A			
Time	Authors (Presenter)	ID	Title
12.15-13.30	Muhammed Artran , Hasan Doğan, O.Serdar Gedik	219	Monocular Depth Estimation from Thermal Images via Edge-Guided RGB Synthesis
	Hasan Doğan , Jaime Lien, Laura I. Galindez Olascoaga, Muhammed Selman Artiran, O. Serdar Gedik	220	RoadSense-LM: Aligning Time-Series Sensors with Frozen Language Models
	Reyhan Dede	232	Quantum-Aware Large Language Models: Taxonomy, Architectures, and Future Applications
	Raghu Para , Durga Krishnamoorthy	262	Intent-aware Multi-lingual AI Agents for Voice-Based Transactions in Edge IoT Systems
	Hira Firdous , Yasir Saleem, Khansa Shahid, Afeef Obaid, Anya Yasir	158	Smart CBC Diagnostic System: Revolutionizing Blood Smear Analysis with Advanced Machine Learning
13.30--14.00	LUNCH BREAK 		

Parallel Session 6B: Developments in Aviation Technologies, Mixed Topics Room B			
Time	Authors (Presenter)	ID	Title
12.15-13.30	William Lopes, Sergio Ruggero, Oduvaldo Vendrametto, Marcelo Okano	73	Augmented Reality in Industry 5.0: Customizing production to optimize operational processes and technical training of operators
	Abdelrahman El-gendy , Serag Habib	74	Cairo University RISC-V (CURISCV) Processor
	Radu Matei	129	2D Filters with Directional Frequency Response Designed from Digital Prototypes
	Srisa Pranavi Medicharla	147	Foundations and Frontiers of Microelectronic Systems: From Crystal Lattices and Band Theory to Bipolar Devices and Mixed-Signal Circuits
	Ali Abulshoroud , Muhammad ILYAS	55	Cybersecurity Strategies for Protecting Big Data in Business Intelligence Systems in Urban Cities
13.30--14.00	LUNCH BREAK 		

**Parallel Session 6C: Signal and Image Processing Techniques
Room C**

Time	Authors (Presenter)	ID	Title
12.15-13.30	Syed Zarak Shah , Mansoor Iqbal, Usama Abid, Khalid Munir, Adil Farooq, Muhammad Umar Shafiq	114	Impact of Simulated Defocus Blur on YOLOv8 Object Detection in Low-Cost Vision Systems
	Ismail Lujain Jaleel, Ivan Lysikov, Rasika Rajapaksha, Hassan Ugail	212	Adapting a Large Diffusion Transformer with Conditional Flow Matching for the Synthesis of Realistic Sri Lankan Faces
	Robert Morelos-Zaragoza , Jeffrey Ma	223	On the Performance of Short Binary BCH Codes for Ultra-Low Latency Wireless Communications
	Moctar Mossi Idrissa	257	Redundant Echo Path Estimation for an Adaptive Kernel-Linear Cascaded Structure
	Jaelyn Hui , Jerry Wu	234	Low-Cost Hybrid Physiological Interfaces for Game Control Using OpenBCI
13.30--14.00	LUNCH BREAK 		

**Parallel Session 6D: Mixed Topics
Room D**

Time	Authors (Presenter)	ID	Title
12.15-13.30	Pedro Juan Roig , Salvador Alcaraz, Katja Gilly, Cristina Bernad, Blas Trigueros	221	Matrix representation of quantum addition using QFT
	Pedro Juan Roig , Salvador Alcaraz, Katja Gilly, Cristina Bernad, Blas Trigueros	222	Analysis of quantum circuits for basic entangled states
	Pedro Juan Roig , Salvador Alcaraz, Katja Gilly, Cristina Bernad, Blas Trigueros	240	Decomposition of basic controlled gates in quantum circuits
	Karol Nowak	166	Hybrid Arc Eliminator MSAE with Adaptive Control as an Effective Arc Fault Protection in Low-Voltage Power Networks
	Muhammad Imran, Khalid Ibrahim , Ahmed Saleem, Athar Waseem, Rizwan Qureshi	251	Optimal Deception in Cognitive Radio Security: A Joint Nash Equilibrium Approach to Rate Adaptation and Frequency Hopping Under Jamming
13.30--14.00	LUNCH BREAK 		

CLOSING SESSION

Closing Session – Closing Remarks by Conference Chairs Room A

14.00-14.20

Best Paper Announcement

Closing Remarks by Conference Chairs

Participant Feedback

We value your insights and would love to hear about your experience. Please share your feedback on the sessions, speakers, organization, and overall event. Your input is essential in helping us improve future conferences!

Q/A Session

Thank you very much for your contributions.