

AGENDA

The 5th International Conference on Computational Intelligence & Internet of Things (ICCIoT), 2024

Day 1: 16th December 2024

Time: 12:00pm – 1:30pm

Mode: Physical Presentations

Location: Electrical Auditorium -1, Faculty of Electrical and Computer Engineering,
University of Engineering and Technology, Peshawar - Pakistan.

Session Chair	Dr. Rehmat Khattak, Dr. Abeer Irfan: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar – Pakistan.
Time	Plenary Session
12:00 – 12:15	24.Computational Risk Assessment of the Cement and Steel Sectors in the KSE-100 Index During COVID-19 Using Value-at-Risk (VaR) Analysis <i>Syed Atif Nawaz, Saad Shah, Faiza Nawaz, Tahoor Ahmad Khan</i>
12:15 – 12:30	46.Decadal Water and Energy Demand Forecasting in Pakistan: Implications for Renewable Integration Using WEAP and LEAP <i>Saad Shah, Syed Atif Nawaz, Yasir Muzammil</i>
12:30 – 12:45	69.A Patch-based HER2 Scoring of Breast Cancer (Bca) Employing Soft Voting with Deep Ensemble Classifiers <i>Umar Sadique, Muhammad Abeer Irfan</i>
12:45 – 1:00	44.Enhanced Blood Cell Detection Using Multi-Class and Unary-Class YOLO Models on the BCCD Dataset <i>Sumayyea Salahuddin, Yusra Zafar, Maryam Khan, Mohammad Zafar, Nasru Minallah</i>
1:00 – 1:15	48.Medical Image Segmentation by Bhattacharya Distance Based on Local Probability Distribution <i>Nahida Akhtar, Noor Badshah</i>
1:15 – 1:30	20.Metamaterial Based Beam Switching MIMO Antenna for Millimetre Wave 5G Applications <i>Muhammad Altaf Hussain Khan, Usman Khan, Usman Ali, SADIQ ULLAH, Rizwan Ullah</i>

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Location: Electrical Auditorium -2, Faculty of Electrical and Computer Engineering,
University of Engineering and Technology, Peshawar – Pakistan.

Session Chair	Dr. Safdar Nawaz, Dr. Amaad Khalil: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.
Time	Plenary Session
12:00 - 12:15	38. Stockwell Transform and CNN-Based Pipeline Leak Detection Using Sobel-Filtered Acoustic Emission Signals <i>Muhammad Siddique, Faisal Zaman, Wasim Zaman, Jong-Myon Kim, Muhammad Umar</i>
12:15 - 12:30	37. Enhanced Bearing Fault Diagnosis Using Statistical Time Features and Independent Component Analysis: A Comparative Study of Neural and Non-Neural Models <i>Wasim Zaman, Jong-Myon Kim, Faisal Saleem, Muhammad Umar,</i>
12:30 - 12:45	12. A Systematic Literature Survey on the Use of Machine Learning for Resource Management in Fog Computing <i>Fahim khan, Ibrar Ali Shah</i>
12:45 - 1:00	13. Automatic Text Summarization by Using Deep Learning Models <i>SahibZada Zohaib Ali Shah, Muhammad Usman, Ibrar Ali Shah, Bilal Khan</i>
1:00 - 1:15	62. A Techno-Economic Analysis of Smart Microgrids with Future IoT for Rural Electrification <i>Muhammad Ahmad Ibraheem, Abdul Basit</i>
1:15 - 1:30	32. Predicting Pakistan's Monsoon Patterns through Deep Learning Long-Short-Term-Memory Models <i>Maryam Khan, Qudsia Zafar, Kainat, Sumayyea Salahuddin</i>

AGENDA

Day 2: 17th December 2024

Time: 10:00am – 1:00pm

Session A: Artificial Intelligence Innovations for Applications of Internet of Things



Location: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.

Session Chair	Dr. Thangavel Murugan, United Arab Emirates University Dr. Muthumanikandan, Vellore Institute of Technology, Tamilnadu, India. Dr. Amaad Khalil, Dr. Madiha Sher, Dr. Rehmat Khattak, Dr. Abeer Irfan: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.
Time	Plenary Session
10:00 - 10:15	41.UNet-Transformer for EEG Motor Imagery Classification <i>Fahad Sherwani, Ferdeen Bakht</i>
10:15 - 10:30	50.Real-Time Data Visualisation for the IOT Application using Digital Twin Technology <i>Dr. Pravin Latane,</i>
10:30 - 10:45	40.Advanced Descriptor Techniques for Quantum Enhanced Autism Spectrum Disorder Detection <i>Sambit Mallick, Snigdha Paul</i>
10:45 - 11:00	22.Fault Detection in Spur Gears Through Vibration Signal Analysis and Machine Learning Techniques <i>Muhammad Talha Asif, Dr. Asif Khan, Dr. Sohail Malik</i>
11:00 - 11:15	14Automatic Accident Detection and Response Systems - Key Challenges and Solution Approaches <i>SRIMATHI R, S Thiruchadai Pandeewari, LOHITHA K, PRATIKA LAKSHMI L G</i>
11:15 - 11:30	29.Optimization of Ultrafast Pulse Laser Micromachining through Advanced Predictive Deep Learning <i>Aroosa Bibi, Mamoona Khalid</i>
11:30 - 11:45	71.The Role of Machine Learning in Detecting Malware on Android Mobile Devices <i>Sachin Misal</i>
11:45 - 12:00	39.A Lightweight CNN with an Attention-Based Mechanism for Visual Emotions Recognition <i>Sadaqat ur Rehman, Zia Ullah, Obaid ur Rehman, Shanshan Tu</i>

Link to access the conference: ICCIIOT24 Session A

Tuesday, December 17 · 10:00am – 1:00pm

Video call link: <https://meet.google.com/mrg-nyxx-tzx>

AGENDA

Day 2: 17th December 2024

Time: 10:00am – 1:00pm

Session B: Applications of Computational Intelligence in Industry and Society



Location: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.

Session Chair	Engr. Ihsan ul Haq, Dr. Muniba Ashfaq, Dr. Safdar Nawaz: Department of Computer Systems Engineering Dr. Shahid Bashir: Department of Electrical Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.
Time	Plenary Session
10:00 - 10:15	78.Comparative Analysis of Machine Learning Models for Binary and Multi-Class Classification in EMG-Based Hand Gesture Recognition <i>Muhammad Taqi, Mishaal Khawar</i>
10:15 - 10:30	10.Autism Detection and Empowering Children with Autism through Cognitive Games <i>Somnath Mondal1, Priyam Chowdhury</i>
10:30 - 10:45	19.Food Adulteration Detection Using Hyperspectral Imaging In Okra <i>Sivanithi P Y, Sameeha A, Haranya S, John Shiny J</i>
10:45 - 11:00	81.Optimized Intrusion Detection using Ensemble and Multi-Agent-based Hybrid ML techniques <i>Dr Syed Nasir Mehmood Shah</i>
11:00 - 11:15	82.A Comparative Study of Feature Selection Process and ML Algorithms in Bearing Fault Diagnosis Aisha Abid
11:15 - 11:30	6.Advanced Crop Disease Detection Leveraging CNNs <i>Bhakti Puranik</i>
11:30 - 11:45	23.Stress Detection Using Facial Emotion Recognition: Comparative Analysis of VGG16, ResNet-50, and a Custom CNN Architecture <i>PRANEETHA CHALADI</i>

Link to access the conference: ICCIIOT24 Session B

Tuesday, December 17 · 10:00am – 1:00pm

Video call link: <https://meet.google.com/jaa-mfha-hos>

AGENDA

Day 2: 17th December 2024

Time: 10:00am – 1:00pm

Session C: Emerging Trends in Internet of Things and Smart Systems

Location: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.



Session Chair	Dr. Ather Sethi, Engr. Sumayyea, Dr. Yasir Saleem, Dr. Khurram Shehzad: Department of Computer Systems Engineering, Faculty of Electrical and Computer Engineering, University of Engineering and Technology, Peshawar - Pakistan.
Time	Plenary Session
10:00 - 10:15	42.IoT-Enabled Process Monitoring and Product-Process Linkage in High- Volume, High-Mix Assembly Lines <i>Sajid ullah butt, Faiza Zehra, Ahmed Qureshi</i>
10:15 - 10:30	67.Simulated Study of Soil Moisture Prediction Using Agricultural Sensors and Convolutional Neural Networks <i>Chandrani Singh,</i>
10:30 - 10:45	74.Sustainable Energy Solution for Mobile Robotics: Modeling and Power Management <i>Bilal Khan</i>
10:45 - 11:00	66.Text Echo: Dynamic Voice Generation for Personalized Text-to-Speech System <i>Chetan Lande</i>
11:00 - 11:15	68.A Metaheuristic Fuzzy Goal-Based Approach to Ant Colony Optimization for Portfolio Selection <i>Kandarp Vidyasagar, Chandrani Singh</i>
11:15 - 11:30	55.Enhancing Federated Learning Efficiency Through Parallel Computing Techniques <i>Zia Ur Rehman, Uzair Hassan, Saif Ul Islam</i>
11:30 - 11:45	5.Tumour Detection using Deep Learning <i>Rashmi Dixit</i>

Link to access the conference: ICCIIOT Session C

Tuesday, December 17 · 10:00am – 1:00pm

Video call link: <https://meet.google.com/kgq-kros-yaw>

Note:

- 1. All timings are in Pakistan Standard Time (PST).**
- 2. Your presentation should last for 10 minutes, followed by a 5-minute question and answer session.**