



IEEE-CSNT 2026

# IEEE 15<sup>th</sup> International Conference on Communication Systems and Network Technologies

(IEEE-CSNT 2026)

7 - 9 April 2026

[www.pmu.edu.sa/csnt2026.com](http://www.pmu.edu.sa/csnt2026.com)

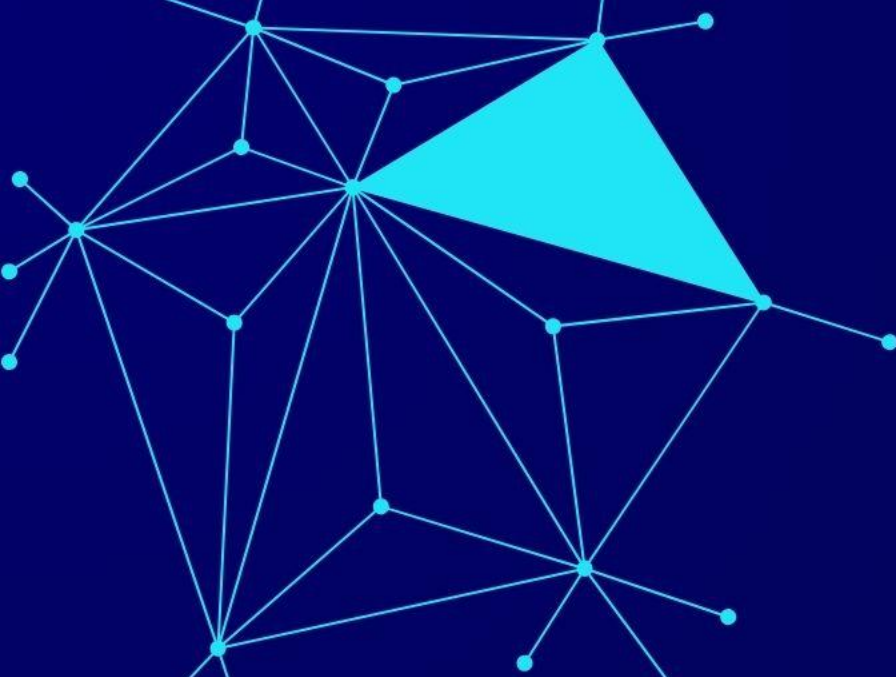
[csnt2026@pmu.edu.sa](mailto:csnt2026@pmu.edu.sa)

# SCOPE OF THE CONFERENCE



The aim of CSNT 2026 is to bring together worldwide leading researchers, developers, practitioners and educators interested in advancing the state of the art in computational intelligence and communication networks for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities. It is expected that researchers will bring new prospect for collaboration across disciplines and gain idea facilitating novel breakthroughs. The theme for this conference is innovating and inspiring the researchers to adopt the outcome for implementation.

The conference will provide an exceptional platform to the researchers to meet and discuss the utmost solutions, scientific results and methods in solving intriguing problems with people those are actively involved in these evergreen fields. The 3-day conference commencing from 7 April, will feature prominent keynote speakers, tutorials, panel discussions and workshop. All accepted and presented papers will submitted to Conference Publishing Services (CPS) for publication in IEEE CPS. CSNT 2026 will no doubt prove to be an exciting and educative event. The General Chairs, along with the entire team cordially invite you to take part in this upcoming event and hopeful that together we flourish it into a most memorable experience.



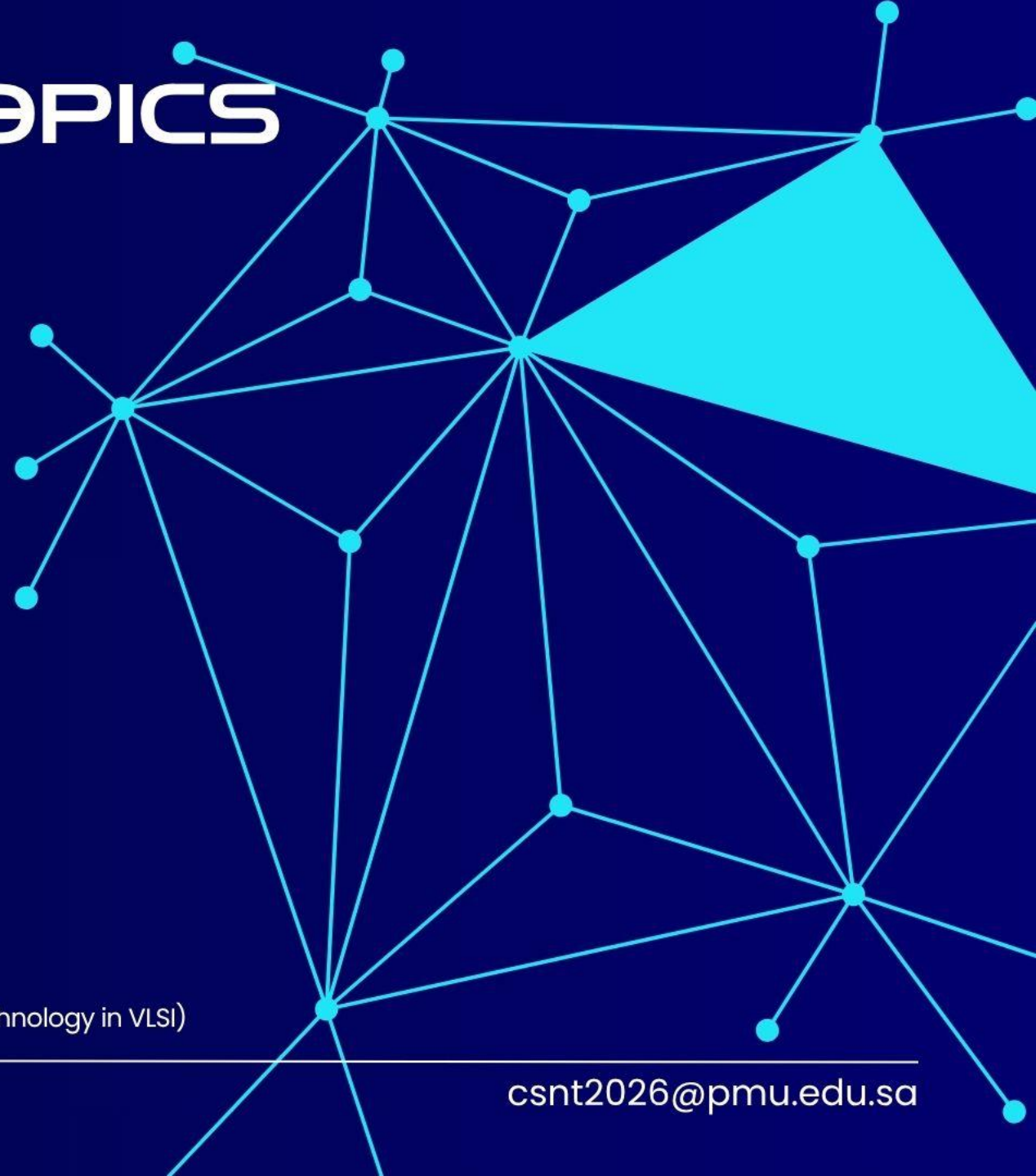
# TOPICS OF INTEREST

Authors are solicited to contribute to the conference by submitting articles that illustrate research results, project outputs, and industrial experiences that describe significant advances in Communication Systems and Network Technologies



# CONFERENCE TOPICS

- Communication Systems and Communication Standards
- Soft Computing, Fuzzy Systems and ANN
- Sensors and Sensor Networks
- Security and Authentication
- Air Interface, Wave Propagation and Antennas
- Mathematical Modeling and Simulation
- Data Mining, Web Technology and Ontology
- Parallel and Distributed Systems
- Microwave Theory and Techniques
- Microwave Devices and Circuits
- Adhoc Networks and Wireless Networks
- IT and Management
- RFIDs and Applications
- Embedded Systems Design and Hardware Implementation
- Cloud Computing and Green Computing
- Vehicular Technology and Networks
- Image, Speech and Signal Processing
- Computer Vision and AI
- Biometry and Bio-informatics
- Information Security and Network Security
- Simulation and Hardware Implementation Techniques
- Control Systems, Power Systems and Transmission Systems
- Big Data and Internet of Things
- MIMO and MEMS
- VLSI and SOCs (Special Session on Clean Energy and Sustainable Technology in VLSI)



# IEEE-CSNT 2026 Honorary Conference Chair



**Dr. Issa H. Al Ansari**  
**Honorary Conference Chair**

**President**  
**Prince Mohammad Bin Fahd University**  
**Al Khobar, Kingdom of Saudi Arabia**

# IEEE-CSNT 2026 Conference Chair



**Dr. Faisal Yousif Al Anezi**  
Conference Chair

**Prince Mohammad Bin Fahd University**  
Al Khobar, Kingdom of Saudi Arabia

# IEEE-CSNT 2026 General Chairs



Dr. Ghassen Ben Brahim  
General Chair

Prince Mohammad Bin Fahd University  
Al Khobar, Kingdom of Saudi Arabia



Prof. G S Tomar  
General Chair

IEEE MP Section  
MIR Labs

# IEEE-CSNT 2026 Conference Co-Chairs



Dr. Abul Bashar  
Conference Co-Chair

Prince Mohammad Bin Fahd University  
Al Khobar, Kingdom of Saudi Arabia



Dr. Manish Dixit  
Conference Co-Chair

MITS  
Gwailor, India

# IEEE-CSNT 2026 Program Committee Chairs



Dr. Majid Ali Khan  
Program Committee Chair

Prince Mohammad Bin Fahd University  
Al Khobar, Kingdom of Saudi Arabia



Dr. Jitendra Agrawal  
Program Committee Chair

RGPV  
Bhopal, India

# Keynote Speakers



**Prof. Bryan Scotney**  
**Keynote Speaker**

Ulster University  
UK

**Talk Title:**  
**AI-based Analytics for Service  
Enhancement and Operational  
Delivery**



**Prof. Amir Hussain**  
**Keynote Speaker**

Edinburgh Napier  
University, UK

**Talk Title:**  
**Towards Trustworthy Artificial  
Intelligence: Real-World Use  
Cases, Challenges and  
Opportunities**



**Ms. Cliona O'Boyle**  
**Keynote Speaker**

BT Ireland Innovation  
Center, UK

**Talk Title:**  
**Innovation by Design: Evolving  
the  
BT Ireland Innovation Centre for  
Greater Strategic Impact**



**Prof. Muhammad  
Khurram Khan**  
**Keynote Speaker**

King Saud University,  
Saudi Arabia

**Talk Title:**  
**Securing the Intelligent Future:  
AI Vulnerabilities and AI-Driven  
Resilience in Hyper-Connected  
Systems**

# Day – 1 (PM)



**Dr. Abul Bashar**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Prince Turki Center  
(In-Person)

Prince Turki Center (In-Person)

[Link](#)

## **D-8 Paper ID: 1571251582**

**Aliah Alanazi, Lana Alali, Taha Houda** - PUMA-Based PID Control of DC Actuators for Handiski and Human-Interactive Systems

## **D-10 Paper ID: 1571255623**

**Nivine Guler, Taha Houda, Ibrahim El Didi, Jamaluddin Hindi**- SPARK: Shutdown Prevention and AI-Based Resilience framework for PV Systems

## **F-30 Paper ID: 1571261274**

**Hessa Albaqami, Lusan Alahmadi, Sawsan AbdulRahman** - REALM: A Robust Evidence-Based Audio Logic Matrix for Forensic Deepfake Detection

## **G-6 Paper ID: 1571258238**

**Hussein Alkatout, Muhammad Khan, Taha Houda, Abul Bashar, Ghassen Ben Brahim** - A Novel Deep Convolutional Neural Network Architecture for Neuroscience Disease Recognition

## **G-33 Paper ID: 1571258395**

**Tigmanshu Patel, Brijesh Kundaliya, Upesh Patel, Miral Desai, Vishal Shah, Hiren Mewada** - Reliability of Active Suspension in Rail Vehicles: A Model-Based LQR and Sequential Residual Based Diagnostic Framework

## **G-39 Paper ID: 1571258215**

**Zafar Kazimi, D. N. F. Awang Iskandar, Ghazanfar Latif, Farhan Ullah** - Violence Detection of Weakly Supervised Surveillance in the Real World Through Transformer-Based Attention Multiple Instance Learning

# Day – 1 (PM)



**Dr. Jawad Ahmad**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **B-4 Paper ID: 1571250527**

**Jawad AlKhateeb** - A Novel Multimodal Biometric Framework for Identifying Missing People in Hajj and Umrah Using Iris and Ear Recognition

## **B-5 Paper ID: 1571251750**

**Essa E. Almazroei** - An Energy-Aware Benchmark of Machine Learning Models for Cloud-Based Educational Analytics

## **B-8 Paper ID: 1571246234**

**Muhammad Shaban Qabil, Qurat Ul Ain, Maham Aurang Zaib, Shams Ur Rehman, Ahmed Iqbal, Akbar Khanan** - Citer-Aware Researcher Evaluation Using Machine Learning and SHAP-Based Interpretability

## **B-28 Paper ID: 1571250675**

**Mahmoud Allahham, Bashar Khaled Almagharbeh, Jawad Hasan AlKhateeb, Mohammad Hammam Melhem, Jamal Zraqou, Raad Alrawashdeh** - Predictive Network Quality Using Artificial Intelligence and Machine Learning: Implications for Supply Chain Performance

## **B-31 Paper ID: 1571234577**

**Rafi Ahamed, Sidratul Moon Nafsin, Md. Abir Rahman, Tasnia Tarannum Roza, Munaia Jannat Easha, Abu Raihan** - TeaLeafVision: An Explainable and Robust Deep Learning Framework for Tea Leaf Disease Classification

## **G-23 Paper ID: 1571228348**

**Vulavala Swarnalatha, K Mahesh Babu, Mohebbanaaz** - Intelligent Agricultural Crop Recommendation System Based on Seasonal Patterns and Environmental Data Analysis (DA)

# Day – 1 (PM)



**Dr. Muhammad Attique Khan**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Room C (Online)

Room C (Online)

[Link](#)

## **C-3 Paper ID: 1571236485**

**Yaseen Baig, Sajjad Waqar Ahmed, Rabi Iqbal Rana, Fahad Rahman** - A Multi-Layered Blockchain Architecture for Scalable and Trustless Coordination in 5G/6G Networks

## **C-4 Paper ID: 1571260461**

**Betty Elezebeth, Sabna Machinchery Ali, Yasir Ahmad, Yasmien Hussain Osman Abbas, Vijay Hari and Mohamed Kabeer Yousuf** - A Privacy-Guaranteed Federated Big Data Analytics Architecture for Cross-Organizational Cyber Threat Intelligence Sharing

## **C-5 Paper ID: 1571260458**

**Danah Almuzel, Shahad Nouh Aljaroudi, Najla Hussain Almansour, Najd Ghadra, Rana Khalid Alqahtani, Rami Mustafa Mohammad** - AegisOT Design and Simulated Evaluation of a Unified Zero-Trust Security Gateway

## **C-7 Paper ID: 1571260324**

**Shreya Elsa Ninan, Sreeja C S, Smitha Vinod** - Audio-Haptic Authentication for Visually Impaired Users: A Comprehensive Multimodal Framework

## **C-21 Paper ID: 1571240139**

**Ashikuzzaman Rimon, Mahabubur Rahman, Md. Ahsan Arif, Md. Manjur Ahmed, Md. Mehedi Hasan** - SDNGuardStack: An Explainable Ensemble Learning Framework for High-Accuracy Intrusion Detection in Software-Defined Networks

## **G-22 Paper ID: 1571243852**

**Richa Pandey, Ashutosh Tyagi, Preeti Sharma, Anubhava Srivastava** - InsightScan: A Unified Framework for Structured Document Analysis, Visualization and Interactive Querying

# Day – 1 (PM)



**Dr. Maen Hammad**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **G-3 Paper ID: 1571238774**

**Sushmita Sree S, Tamanna Chidanand, Tammineni Adarsh, Vinayak Mahesh, Swati Pratap Jagdale** - A Lightweight Hybrid DETR-MobileNetV2 Framework for Real-Time Diabetic Retinopathy Screening and Grading

## **G-4 Paper ID: 1571238974**

**Harshit Kumar, Sarthak Kumar, Shashank Shekhar, Rekha Chaturvedi, Abhay Sharma, Anubhava Srivastava** - A Meta-Learning Framework for Financial Anomaly Detection

## **G-5 Paper ID: 1571240330**

**Mainak Sen, Raj Kumar, Abhishek Malakar, Santanu Pal** - A Multimodal Deep Neural Network for Multiclass Hate Speech Classification

## **G-7 Paper ID: 1571258352**

**M Rao; G. V. L Narisimha; A. K Issa; Y Botcha; D Upadhyay** - A Real-Time Browser-Based Assistive System for Indoor Object Narration

## **G-8 Paper ID: 1571235666**

**S Korrapati; V Yannam; M Enduri; M Gorrepati** - A Scalable Community-Based Hybrid Framework for Recommendations Using SGD and INHSM Similarity

## **G-9 Paper ID: 1571243924**

**S Banik; A Fahim; M. S Uddin; B Biswas; H Joti; S. E. S Khan; M. S. H Sumon** - Addressing Trust and Efficiency in Pediatric Anemia Diagnosis Using Interpretable Decision Trees

## **G-10 Paper ID: 1571239092**

**Chundururu Anilkumar, Kanithi Gunasagar, Akasapu Gayatri, Sai Ganesh padhy, Susarapu Kavya, Sathishkumar V E** - An Agentic Retrieval-Augmented Generation Framework for Dynamic Career Path Optimization

# Day – 1 (PM)



**Dr. Marius Nagy**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **F-1 Paper ID: 1571259140**

**S Ali; A Jaber** - A Comprehensive Review of Named Data Networking: Architectural Principles, Techniques, Applications, Challenges, and AI Integration

## **F-2 Paper ID: 1571239910**

**Ahmed Rahmani, Mohanad Alayedi** - A Dataset for IoT-Enabled Smart Irrigation Using UAVs for Multispectral Sensing in Agriculture

## **F-3 Paper ID: 1571260149**

**S Nawasra; M Abualkibash** - A Deployment-Aware Feasibility Framework for Machine Learning-Based IoT Intrusion Detection Across Edge, Fog, and Cloud Architectures

## **F-4 Paper ID: 1571247129**

**Gautami Shingan, Priyanka Nilesh Jadhav, Amol M. Jagtap, Priyanka Gejage, Pradnya Mane, Aishwarya Waghmode** - A Fabric-Aware Intelligent Washing Machine Using Multi-Input Fuzzy Logic Control

## **F-5 Paper ID: 1571259937**

**J Muthukrishnan; A Packialatha** - A Hybrid Explainable AI Framework for Transparent Clinical Diagnosis Using LightGBM and SHAP on MIMIC-IV

## **F-8 Paper ID: 1571230544**

**Boya Malleswari, Y. Indira Priyadarshini**- AI Based Web Platform for Cyber-Fraud Prevention in Job Portals Using Machine Learning

# Day – 1 (PM)



**Dr. Robin Singh Bhadoria**  
Session Chair  
Time: 3:15pm – 4:45pm (KSA)  
Location: Room A (Online)

Room A (Online)

[Link](#)

**A-3 Paper ID: 1571260084**

**Anubhav Singh Tomar, Geetam Singh Tomar** - Cluster Head Selection Optimization for Lifetime Enhancement in WSN

**A-12 Paper ID: 1571239868**

**Ahmed Musfi Alasal** - Modeling and Feasibility Evaluation of a 5G mmWave Wake-Up Receiver for Battery-Less IoT Applications

**A-14 Paper ID: 1571225916**

**Muhammad Rashid Anwar** - National Roaming Enablement and Security Enhancement: A Nationwide LTE Deployment Framework

**G-1 Paper ID: 1571239287**

**N. S Roy; S Hupesh Naga Ketan; M Naaz** - A Hybrid Drift-Aware Causal and Counterfactual Explainability Framework for Transparent Loan Default Prediction

**G-2 Paper ID: 1571255703**

**Irfan Haider, Afia Zafar, Mohammad Zikria, Zafar Kazimi** - A Lightweight Deep Attention-Guided Feature Learning Mechanism for Crop Disease Recognition

**G-20 Paper ID: 1571244740**

**Shams Ur Rehman, Maham Aurang Zaib, Junaid Ali Khan, Muhammad Talha Saeed, Zeeshan Habib, Hashim Elshafie, Wejdan Deebani, Azhar Imran** - Evaluating GRU and Other Neural Architectures for Robust Lung Cancer Surveillance Against FGSM Attacks in Edge Systems

# Day – 1 (PM)



**Dr. Dinesh Sharma**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **A-2 Paper ID: 1571239918**

**Raneem Alqahtani, Abdulrahman S.M. Alqadami, Ibraheem Al-Naib** - Bandwidth-Driven Optimization of a Spiral UWB Antenna for Hemorrhagic Stroke Detection

## **F-6 Paper ID: 1571260280**

**Mohammed Waseequ Sheraz, Mohammad Zunnun Khan, Mohammad Tabrez Quasim, Mohammad Ayoub Khan, Zubair Ashraf** - A Secure Cloud-IoT Communication Framework for Smart Devices

## **F-7 Paper ID: 1571240150**

**Abdul Ahad, Ash Mohammad Abbas** - Advancements in Intelligent and Adaptive Methods for Internet of Things

## **F-19 Paper ID: 1571250201**

**Anubhav Singh Tomar, Geetam Singh Tomar** - Generative Artificial Intelligence for CrossDomain Knowledge Synthesis and Intelligent Automation

## **F-27 Paper ID: 1571260468**

**Hussam Abdullah Almajnuni, Yazan Saad Mousa, Almuthanna Yahia Alyousef, Turki Ali Ammari, Ahmed Yousef Alfayez** - OTDefender: An AI-Assisted Incident Response System for OT/ICS Environments

## **F-28 Paper ID: 1571244094**

**Abdul Salam Abdul Karim** - Perception-Aware Intelligent Lighting Systems: Functional Safety and Control Architectures for Intelligent Vehicles

# Day – 1 (PM)



**Dr. Deepika Dubey**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room C (Online)

Room C (Online)

**Link**

## **B-1 Paper ID: 1571247592**

**Gautami Shingan, Priyanka Nilesh Jadhav, Amol M. Jagtap, Goutam Meenia, Ritik Sharma** - A Hybrid CNN-BiLSTM Deep Learning Model for Email Spam Detection

## **B-2 Paper ID: 1571253867**

**Manoj Kumar Mishra, Bireswar Dass Mazumdar, Ashok Kumar Tripathi, Santosh Kumar** - A Hybrid Multi-Agent-ML Architecture for TrustOriented Seller Evaluation in B2C E-Commerce

## **B-3 Paper ID: 1571260081**

**Arjan Ghosh, Farhana Tazmim Pinki, Rajesh Baidya, Mst. Farjana Alam, Shovon Mandal** - A Machine Learning and DEM-Based Approach for Predicting Sea Level Rise and Assessing Coastal Risk in Bangladesh Using AI Insights

## **B-6 Paper ID: 1571240082**

**Rajasekaran Thangaraj, Preethi Sri, Santhosh Dinakaran, Pooja Shree R, Shreesabari S** - Automated Multi-Class Classification of Anterior Segment Eye Diseases Using Deep Learning

## **B-7 Paper ID: 1571259528**

**N Sharma; V Goyal; A Kurunth; T Gupta; Y Swarup** - Characterization and Detection of Diseases in Sugarcane Leaves Using Deep Learning: An End-to-End Automated System

## **B-9 Paper ID: 1571239265**

**Varun P Ranjit, Shruthi M L J** - Classification Modeling of Esophageal Cancer Using Volatile Organic Compound Profiles and Supervised Learning

# Day – 1 (PM)



**Dr. Varun Mishra**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **E-1 Paper ID: 1571228863**

**A. S Affaan Safi, Kuppala Laxmi, Mohebbanaaz** - A Hybrid YOLOv8-GRU Framework for RealTime Human Activity Recognition and Anomaly Detection in ATM Centers

## **E-2 Paper ID: 1571230551**

**Talari Nagamani, Mohebbanaaz, D Mohammed Zilani** - A Robust Ensemble-Kernel Hybrid Framework for Accurate and Interpretable Breast Cancer Diagnosis

## **E-3 Paper ID: 1571241998**

**Harshita Khangarot, Manju Lata Joshi, Umesh Agarwal** - A Two-Layer Embedding-Driven Framework for Self-Deprecation Filtering and Multi-Class Humor, Sarcasm, and Distress Detection

## **E-4 Paper ID: 1571250441**

**S S; D Velavan; R. Sowmiya; P S** - Algorithmic Decomposition of ESG Scores: A Sustainability Governance Analysis of Indian Listed Companies

## **E-5 Paper ID: 1571236353**

**S. H Roshni; S Munira; S. S Sumaya; S. A Zabid; M. S. H Polash** - An Improved Tiny Vision Transformer-Based Approach for Explainable Apple Leaf Disease Classification

## **E-6 Paper ID: 1571249688**

**Hamza M. Alabdallah, Suleiman Y. Yerima, Khaled Shaalan** - Arabic Speech Synthesis: A Comprehensive Analysis of Current Resources and Application Advancements

# Day – 1 (PM)



**Dr. Vandna Roy**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **A-1 Paper ID: 1571260058**

**Deepak Kumar, Pooyan Hamidi, Sumit Kumar Rana, Arun Kumar Rana, S Syed Immamul Ansarullah** - A Unified Security Framework for SDN-Enabled 5G Core Networks with Secure Network Slicing Enforcement

## **A-4 Paper ID: 1571260393**

**T Nguyen; H Nguyen-Thi; N TruongQuang; Tu Le-Tuan; N Hussain** - Compact Dual-Band Antenna Based on Two Microstrip Patches with Capacitive Feeding

## **A-5 Paper ID: 1571260442**

**T Hoang-Thi-Thu; H Pham-Duy; N Tran; M. A. A Sani** - Compact Dual-Band Dual-Sense Circularly Polarized Dielectric Resonator Antenna

## **A-6 Paper ID: 1571265347**

**Jayant Kumar Rout, Priyal Sharma, Rahul Priyadarshi, Kruthika Tummala, Anish Kumar Vishwakarma, Rakesh Ranjan** - E3DNM: An Efficient 3D Node Deployment Model for Underwater Wireless Sensor Networks

## **A-7 Paper ID: 1571263072**

**Sahiti Vankayalapati, V. Sreevani, Y. Akshith Reddy, D. Ashok** - Establishing a Secure Site-to-Site Network Using IPsec VPN for Enterprise Communication

## **A-8 Paper ID: 1571260404**

**Naima Mohamadou, Zainab Gambo Muazu, Mohanad Alayedi** - Hybrid Behavioral Intrusion Detection for Zigbee Smart Home Networks Using Metadata-Based Learning

# Day – 2 (AM)



**Dr. Vinayakumar Ravi**  
Session Chair  
Time: 10:00am – 11:30am (KSA)  
Location: Room A (Online)

Room A (Online)

[Link](#)

## **G-11 Paper ID: 1571244880**

**Tim Theuri, Evanson Karanja** - An Experimental Analysis of Block Time and Block Size Performance Trade-Offs in Bitcoin Using a Controlled Regtest Network

## **G-12 Paper ID: 1571240027**

**P Kumar; K Agrawal; N Dwivedi** - An Intelligent Framework for Amazon Review Sentiment Analysis Using Pretrained Models

## **G-13 Paper ID: 1571255518**

**Raghu Gollapudi** - An Optimization-Based Framework for DatabaseLevel Fraud Detection in Real-Time Financial Systems

## **G-14 Paper ID: 1571255125**

**Hasan Baharun, Najiburrahman Najiburrahman, Zamroni Zamroni, Ahmad Aziz Fanani, Halimatus Sadiyah, Fathor Rozi** - Beyond Administrative Compliance: Implementing a Service Quality Management System (SQMS) in the e-Rapor Platform for Madrasah

## **G-15 Paper ID: 1571260153**

**Vu Ba Tuan** - Consensus Design of Multi-Autonomous Vehicles Under Extended State Observer

## **G-16 Paper ID: 1571258719**

**Pankaj Kumar, Sakshi Singh, Shubhangi Joshi, Mohd Saalim, Ashutosh Yadav** - Design and Evaluation of a Dry-Run Simulation and Project Dependency Mapping for Enhanced Code Comprehension and Knowledge Transfer

# Day – 2 (AM)



**Dr. Farhan Ullah**

Session Chair

Time: 10:00am – 11:30am (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **F-9 Paper ID: 1571256200**

**T Sridevi, Chinmayee Dandibhotla, Sri Vyshanvi Nakka** - AI-Driven Assistive Systems for Visual Impairment: A Survey of Perception, Localization, and User Centric Architectures

## **F-10 Paper ID: 1571254097**

**Raghu Gollapudi** - AI-Driven Stability Classification of Database Workloads in Regulated Systems

## **F-11 Paper ID: 1571259900**

**Amar Jukuntla, Yepuri Revanth, Anumula SriRajReddy, Munnam SaiBhargava Reddy** - AI-Powered Drone Surveillance System for Human and Object Detection in Restricted Areas

## **F-12 Paper ID: 1571236053**

**Ajit Kumar Singh, Anuradha Kushwah, Dinesh Sharma, Priyanka Sikarwar, Pankaj Gupta** - AI-Powered Energy Intelligence: Redefining Power Consumption for a Sustainable Tomorrow

## **F-13 Paper ID: 1571260275**

**Chandolu Sreeja, Gundebommu Saicharan, Patakamudi VijayaLakshmi, Amar Jukuntla, A. Sudhakar Reddy** - An Explainable AI Framework for Handwritten Prescription Risk Stratification

## **F-14 Paper ID: 1571259595**

**Mamta Yadav, Keshav Singh Rawat** - Analytical Mapping of AI and Quantum-Inspired Flood Prediction Frameworks Using Keyword Cluster Analysis

# Day – 2 (AM)



**Dr. Sagheer Abbas**

Session Chair

Time: 10:00am – 11:30am

Location: Room C (Online)

Room C (Online)

[Link](#)

## **C-1 Paper ID: 1571259113**

**Hawraa Fadhel Thabit, Ihsan Mezher Rasheed, Mohamed S.M. Alsultani** - A Comparative Study of Independent Domination and Roman Domination in Security Trees

## **C-2 Paper ID: 1571253152**

**Chandan Malagalu Nagaraju, Gandhi Edhala, Venkata Jayadeep Patibandla** - A Multi-Layer Trust Verification Model for Large-Scale Healthcare Data Platforms

## **G-18 Paper ID: 1571235076**

**Venkanna Chanagoni, Syed Noorullah, K Prasad Babu, C Ahalya, R Himabindu, Mohebbanaaz** - Early Alzheimer Detection from MRI Scan Using Hybrid DeepCNN

## **C-8 Paper ID: 1571266754**

**Sarra Namane, Hadjer Belaidi, Imed Saad Ben Dhaou** - Blockchain-Based Access Control for Smart Farming Using Merkle Tree Verification

## **C-9 Paper ID: 1571234858**

**Haider Ali, Shafiqul Abidin, Mohammad Saqib** - Blockchain-Enhanced Outsourced Provable Data Possession with Zero-Knowledge Proofs for Secure Cloud Storage

## **C-10 Paper ID: 1571260476**

**Agander Parashar, Mohan Mani** - Cross-Layer Security Architectures for Internet of Medical Things: A Systematic Literature Review on Lightweight Cryptography, Federated Learning, Blockchain, and Zero Trust Integration

# Day – 2 (AM)



**Dr. Jawad Alkhateeb**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **E-7 Paper ID: 1571257764**

**Asar Abdul Karim** - Arabic Tā' Marbūṭah in Latin Transliteration for Digital Communication: A New Proposed Character

## **E-8 Paper ID: 1571259767**

**Kranti kumar Thota** - Architecting Performance-Aware Verification Framework for Computer Vision Accelerators in Large-Scale Socs

## **E-9 Paper ID: 1571252661**

**Satish Kumar Satti, Kasukurthi Lakshmi Prasanna** - Comparative Performance Analysis of YOLOBased Models for Gunny Bag Detection and Counting in Warehouse Environments

## **E-10 Paper ID: 1571235085**

**G Vamsi Kris, K Prasad Babu, Syed Noorullah, Mohebbanaaz** - Fusion and Transformation Based Generative Adversarial Networks (FTGANs) for Image Generation and Detection

## **E-11 Paper ID: 1571263515**

**CH Anwar ul Hassan, Azhar Imran, Khursheed Aurangzeb, Hashim Elshafie** - Graph Neural Network Framework for Interpretable EEG-Based Emotion Recognition Using Frequency-Band and Connectivity Analysis

## **E-12 Paper ID: 1571229684**

**D Masrouf; Y Salih-Alj** - Intelligent Robotic Waste Segregation Using YOLOv11 for Real-Time Object Detection

# Day – 2 (AM)



**Dr. Majid Ali Khan**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **B-10 Paper ID: 1571255117**

**Jumraini, Zulkifli Tahir** - Counterfeit Indonesian Banknote Detection Using Hybrid HOG-GLCM Features and Support Vector Machine

## **B-11 Paper ID: 1571267241**

**Amrita Parashar, Umair Ullah, Jay Vivek Yadav, Hardik Rawat, Yuvraj Singh, Bhaskar Chari** - Cultural and Sarcastic Context Aware Sentimental Analysis with Large Language Model and Rule Based Heuristics

## **B-12 Paper ID: 1571239411**

**Ali EL Attar, Mohammed EL-Hajj** - Customer Segmentation for Churn Prediction: A Deep Learning-Enhanced Clustering Approach

## **B-13 Paper ID: 1571240005**

**Ganesh Miriyala, Bhavani Priya Kota, Veekshitha Mena, Ajay Ponnala, Jeevan Kumar Badrakali** - Deep Learning Based Channel Estimation and Signal Detection for VLC Systems

## **B-14 Paper ID: 1571260844**

**N Perween; S. F Ayazi; N Akhtar; T Ahmad** - Deep Learning Based Malignancy Classification of Fluid Cytology

## **B-15 Paper ID: 1571223949**

**Rajasekaran Thangaraj, Kishore Abinash A, Kaviya S, Monika R** - Deep Learning Enabled Traffic Surveillance and Police Verification Platform

# Day – 2 (PM)



**Dr. Sawsan AbdulRahman**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Prince Turki Center  
(In-Person)

Prince Turki Center (In-Person)

[Link](#)

## **B-26 Paper ID: 1571260452**

**Lusan Alahmadi, Zainab Alrumaih, Sarah Alshammari, Majid Khan, Abul Bashar** - Predicting Formula One Race Outcomes Using Supervised Machine Learning

## **C-6 Paper ID: 1571250241**

**M. F Kiyani; A Zafar; H Ayaz; M Khan; E Rehman** - Predicting Formula One Race Outcomes Using Supervised Machine Learning

## **C-24 Paper ID: 1571258465**

**Joud Alhodaithy, Nouf Mohamed, Jaidaa Hafez, Mahnoor Iftikhar, Abul Bashar** - Virtualization in Cloud Network Security Architecture: A Comparative Analysis

## **E-22 Paper ID: 1571247782**

**Ameer Hamza, Robertas Damaševičius, Muhammad Attique Khan, John Abbas, Wardah Ibrar** - TriCA-Net: A Tri-Context Adaptive MoE Framework for Brain Metastases Segmentation Using Multimodal MRIs

## **M-13 Paper ID: 1571251594**

**Abdulmohsen Alotaibi, Taha Houda, Jinan Charafeddine, Swaminath Venkateswaran** - HITL - Adaptive AI for Safe and Personalized Upper-Limb Rehabilitation

## **M-24 Paper ID: 1571250527**

**Jawad Alkhateeb** - A Novel Multimodal Biometric Framework for Identifying Missing People in Hajj and Umrah Using Iris and Ear Recognition

# Day – 2 (PM)



**Dr. Taha Houda**

Session Chair

Time: 1:30pm – 3:00pm (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **B-16 Paper ID: 1571234202**

**Tabassum Talukder, Md. Abdulla Hasan, Md. Ehsanul Haque** - Deep Learning-Based Fruit Freshness Assessment with ResNet34 and Explainable Visualizations

## **B-17 Paper ID: 1571254109**

**Saravanan Raj** - Deep Learning-Enabled Anomaly Detection for Cloud Infrastructure Management

## **B-18 Paper ID: 1571255650**

**Ihsen Ben Mbarek Brahmi, Sandric Bretecher, Line Hoffmeyer-Kuntz, Clément Chanvalon** - Deterministic Embedded Machine Learning for Adaptive Fighter Aircraft HUD Stabilization

## **B-19 Paper ID: 1571259276**

**Sudhakar Pallaprolu, Nagendra Polu** - Energy-Efficient Cloud Computing Using Deep Adaptive Scheduling Models

## **B-20 Paper ID: 1571255250**

**M Vankayalapati; M Enduri; S Korrapati; V Yannam** - Evaluation of Similarity Measures and Machine Learning Models for Collaborative Filtering in Recommender Systems

## **B-21 Paper ID: 1571259998**

**Md Maksudul Amin, Anand Kumar Vedantham, Didarul Alam, Anokh Kishore** - Explainable Machine Learning for Governance-Driven Enterprise Risk Management (ERM)

# Day – 2 (PM)



**Dr. Anwar Mirza**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room C (Online)

Room C (Online)

[Link](#)

## **E-13 Paper ID: 1571239902**

**Yara Nassar, Mohanad Alayedi** - Leveraging VGG16 and ResNet50 for Clinically Aligned Assessment in Breast Cancer Histopathology

## **E-14 Paper ID: 1571259200**

**Raihan Sharif, Umar Hasan, Turki G. Alghamdi** - Real-Time Detection and Violation Monitoring of Heterogeneous Traffic in South Asia Using YOLOv8

## **E-15 Paper ID: 1571233118**

**Balaji Manam, Naveen Kumar Bokka, Abinaya Varatharajan** - Real-Time Lane Detection Using OpenCV and Computer Vision Techniques

## **E-16 Paper ID: 1571257602**

**Hemalatha Jaddu, Pedada Priyanka, Saikamal Suro, Akkalapotu Surya Pavithra, Tedlapu Sanjuna Sharmista** - Real-Time Touchless Human Computer Interaction Using Hand Gesture-Based Virtual Keyboard and Mouse

## **E-17 Paper ID: 1571268191**

**Akarshit Verma, Naveen Chauhan** - Reliability Aware Client Weighting for Robust One Shot Federated Learning Under Heterogeneous Medical Image Distributions

## **E-18 Paper ID: 1571244858**

**Sarmi Murugesan, Kandasamy S** - SC-BiFusionNet: A Hybrid Framework for Autism Face Classification

# Day – 2 (PM)



**Dr. Ghassen Ben Brahim**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **F-15 Paper ID: 1571238765**

**Kalpana Mishra, Nishant Kumar, Apoorv Vikram Singh, Preeti Sharma, Anubhava Srivastava** - CODEX: An AI-Augmented, Curriculum-Aware Platform for Code Evaluation and Academic Integrity in Programming Education

## **F-16 Paper ID: 1571246394**

**Dhananjay Satanure, Swapnil Biradar, Pranav Ghabade, Shenila Ansari, Aditya Chougule, Shailaja Patil** - Design of a Low-Cost Smart Embedded System for Real-Time Alcohol and Accident Detection in Vehicles

## **F-17 Paper ID: 1571239577**

**Prachi Chaturvedi, Shahnawaz Ahmad, Arvind Mewada** - Energy-Efficient Green AI-Driven Task Scheduling for Sustainable Fog Computing in IoT Ecosystems

## **F-18 Paper ID: 1571234198**

**Md. Imam Hasan, Amdadur Rahman, Sami Al Zabid** - Explainable AI for Multi-Class Brain Tumor MRI Classification: An EfficientNet-B0 Approach

## **F-20 Paper ID: 1571239586**

**Mythily V, Mageswari A, Geetha S, Nishanth J S, Rakshitha V, Ramanidharan G** - Intelligent IoT-Based Fish Feeding System Using Species Recognition and Predictive Feeding Models

## **F-21 Paper ID: 1571256378**

**Nagapuraju Pitchuka** - Intelligent Operations and Budget Management Model Using AI for Forecasting, Planning, and Performance Evaluation

# Day – 2 (PM)



**Dr. Nivine Guler**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **D-1 Paper ID: 1571251016**

**Shiv Lal, Kumkum Malakar** - Comparisons Between P&O and PSO Integrated PI-Controlled Buck Boost Converter for Green H2 Production

## **D-2 Paper ID: 1571265133**

**Dhruv Shah, Ashwini Kumar Upadhyay, Varun Mishra, Anish Kumar Vishwakarma** - Energy-Constrained Latent World Dynamics Model for Causal Dynamics Learning in Physical Systems

## **D-3 Paper ID: 1571260464**

**Van Su Luong, Minh Huy Le, Quang Vuong Pham, Dang-Khanh Le, Trong Vinh Dao** - Feedback-Enhanced AC Modulation Technique for Linear Response in GMR Sensors

## **D-4 Paper ID: 1571260478**

**Elmer Arellanos-Tafur** - Impact of a Photovoltaic System on HighAndean Residential Electricity Demand Through Pareto Analysis

## **D-5 Paper ID: 1571260474**

**Elmer Arellanos-Tafur** - Isolation Forest-Based Anomaly Detection for Solar PV Performance Monitoring: CLEMESI Solar Plant Case Study

## **D-6 Paper ID: 1571260096**

**Ahlam Moussa, Ilham Nait Him, Ronja Wimmer, Salma Sebbar, Moulay El Hassan El Azhar** - Modeling and Simulation of a Smart Flyback DC Power Converter for Irrigation Automation

# Day – 2 (PM)



**Dr. Laxmi Shrivastava &  
Mr. Vijayachandar Sanikal**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room A (Online)

Room A (Online)

[Link](#)

## **G-24 Paper ID: 1571240804**

**Prerana Baber, Mini Agrawal, Abhilasha Dixit, Ruturaj Baber, Ujjwal Kumar Pathak** - IT-Enabled Smart Workplaces and Employee Wellbeing: Pathways to Socially Responsible

## **G-25 Paper ID: 1571243694**

**Gaurav Bhardwaj, Mini Agrawal, Hephzibah Beula John, Shweta Saxena, Abhilasha Dixit, Ujjwal Kumar Pathak** - IT-Enabled Talent Management and Organizational Performance: A Systematic Review of Technology-Driven Human Resource Practices

## **G-26 Paper ID: 1571240911**

**Evsyukov Dmitry, Anastasia Kozlova, Jouravlev Mikhail, Prudkiy Alexander, Muzalev Konstantin** - Modeling Environmental Loads Using Neural Networks with Global Data

## **G-27 Paper ID: 1571247301**

**Gautami Shingan, Priyanka Nilesh Jadhav, Amol M. Jagtap, Atharv V Shivankar, Disha S Hamire** - Multi-Objective Energy Management of Microgrids Considering Battery Degradation Using a Deep-Fuzzy-GA Framework

## **G-28 Paper ID: 1571254991**

**Ankur Gupta, Karan Gupta, Bhakti Hinduja, Naveen Kumar Mylarappa, Niharika Pramod Pujari** - Operationalizing Site Reliability in Large-Scale Distributed Systems Shifting Ownership Left

## **G-29 Paper ID: 1571241603**

**Karthikeyini S, Athira S** - Optimized Convolutional Neural Network for Early and Accurate Heart Disease Diagnosis

# Day – 2 (PM)



**Dr. Kuldeep Singh Jadon &  
Mr. Harshendra Gite**

Session Chair

Time: 3:15pm – 4:45pm (KSA)

Location: Room B (Online)

**Room B (Online)**

**[Link](#)**

## **F-22 Paper ID: 1571260447**

**F Alhaidari; S Alqahtani; N Aldossary; R Zagrouba** - Intelligent Operations and Budget Management Model Using AI for Forecasting, Planning, and Performance Evaluation

## **F-23 Paper ID: 1571234655**

**Mona Kumari, Maheswari Prasad Singh** - IoT-Driven Smart Transportation and Environmental Monitoring System for Sustainable Cities

## **F-24 Paper ID: 1571265016**

**Thanh Minh Dao, Cuong Chinh Duong, Thiem V. Pham** - Leaderless Formation Control for Multiple Non-Holonomic Robots

## **F-25 Paper ID: 1571256769**

**Srishti Turki, Jhansi Gonuguntla, T Sridev** - Leveraging Human-Aligned and Probabilistic AI for White-Box Research and Knowledge Discovery: A Survey

## **F-26 Paper ID: 1571240128**

**R. Sowmiya; M Velavan** - Modeling Consumer Adoption of Energy Efficient Appliances Using Artificial Neural Networks and Clustering: Insights for Sustainable Energy Systems

## **F-29 Paper ID: 1571240182**

**Avijit Gayen, Sumana Sikdar, Anwesha Bose, Anwesha De, Arunima Mandal, Angshuman Jana** - RAG-HA: Recognizing AI-Generated Handwritten Answers Based on Argument-Mining Framework

# Day – 2 (PM)



**Dr. Manish Dixit &  
Mr. Vishwanath Hiremath**  
Session Chair  
Time: 3:15pm-4:45pm (KSA)  
Location: Room C (Online)

Room C (Online)  
[Link](#)

## **A-9 Paper ID: 1571244996**

**Priyal Sharma, Abhishek Kumar Singh, Aritro Saha, Rahul Priyadarshi, Anish Kumar Vishwakarma, Rakesh Ranjan** - Hybrid Evolutionary Optimization Algorithm for Energy-Efficient Node Deployment in WSNs

## **A-10 Paper ID: 1571256164**

**Vijaya Kumar Velpula, Harshavardhan Dharmavaram, Malekadi Vishwanath Reddy** - Instantaneous-Frequency-Driven Adaptive Multitaper for Spectral Estimation

## **A-11 Paper ID: 1571260227**

**Jaynil DimpalKumar Panjwani, Neha Agrawal** - LiDIA: A Lightweight DPoS-IPFS Architecture for Scalable and Secure IoT Networks

## **A-13 Paper ID: 1571236085**

**Abdulbaset Mustafa Hamed, Hisham B. Almelah** - Multicell MU-MIMO for B5G and 6G Systems: Efficiency Metrics Analysis in Composite Propagation Environment

## **A-15 Paper ID: 1571240537**

**Asha M. Raikar, Manjaiah D.H.** - No Single Algorithm Suffices: A Framework-Centric Argument for Adaptive TCP Congestion Control

## **A-16 Paper ID: 1571259768**

**Kranti kumar Thota** - Optimal Pre and Post-Silicon Validation Strategy for Vision-Centric ASIC Platforms

# Day – 2 (PM)



**Prof. Sameer Nanivadekar &  
Mr. Sridhar Rachakonda**

Session Chair

Time: 3:15pm-4:45pm (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **C-11 Paper ID: 1571235151**

**Aishvi Tyagi, Ronit Matthew George, Jayapandian N** - Cyber Threat Detection in Cloud Storage Environment Using Artificial Intelligence

## **C-12 Paper ID: 1571258725**

**Sharan R S, Sanjai P K, Mohankumar N** - Design and Synthesis of PUF-Based Timer for Securing Automotive Microcontrollers

## **C-13 Paper ID: 1571240153**

**Shahedur Rahman Rafin, Md. Shadman Shakib Dip, Noor A Arabi Noor** - Enhancing SDN Security: A Balanced and Interpretable Machine Learning Framework for Intrusion Detection

## **C-14 Paper ID: 1571253162**

**Venkata Jayadeep Patibandla, Gandhi Edhala, Chandan Malagalu Nagaraju** - Formal Verification of Data Integrity and API Security in Distributed Analytics Systems

## **C-15 Paper ID: 1571216994**

**Fanqi Meng, Huimin Li, Jingdong Wang** - Function-Preserving Adversarial Example Generation for Windows PE Malware

## **C-16 Paper ID: 1571260345**

**Elif Firinci, Mohanad Alayedi** - Hierarchical Flow-Based DDoS Detection Without Protocol Identifiers: A Two-Stage Framework for Attack Identification and Flood Type Distinction

# Day – 2 (PM)



**Dr. Rakesh Ranjan &  
Mr. Virendra Singh Chawra**

Session Chair

Time: 3:15pm-4:45pm (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **B-22 Paper ID: 1571250209**

**Abdul Haque, Nadeem Akhtar, Tameem Ahmad, Mohd Aslam** - Explainable Machine Learning Framework for Multi-Stage Chronic Kidney Disease Classification

## **B-23 Paper ID: 1571258453**

**Pankaj Kumar, Khushi Rathore, Kartik Chauhan, Hemanshu Verma, Lalit Mehra** - INQUISITOR: An LLM-Driven Semantic SIEM Model for Automated Threat Intelligence and Log Reasoning

## **B-24 Paper ID: 1571212521**

**Ruchika Bindal, Mandeep Kaur, Righa Tandon** - IntelliFog Architecture for Fog Computing Environment Using Machine Learning

## **B-25 Paper ID: 1571239975**

**Zong-Yi Cai, Pei-Hsuan Hsieh** - Network Management of Multi-Vendor Devices: An LLM-Assisted Framework

## **B-27 Paper ID: 1571241614**

**Jasline Jovitaa B, Prasanna S** - Predictive Analytics for Cardiovascular Health Using Machine Learning Techniques

## **B-29 Paper ID: 1571239944**

**D.Vinoparkavi, V.Mythili, Dharun Raj R, Deepika Y, Nithwin V M** - Smart ID Card Detection and Authentication Using Deep Learning and Computer Vision

# Day – 3 (AM)



**Dr. Muhamed Mudawar**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room A (Online)

Room A (Online)

[Link](#)

## **G-30 Paper ID: 1571235884**

**Venkateshwarlu Banavath, Arindam Kishor Biswas, Md Shafiul Islam, Sabrina Khan Mim, Md Asif Khan, Md Kamrul Siam** - Optimized Random Forest with Explainable AI for Accurate Boro Rice Yield Prediction and Real-Time Web App

## **G-31 Paper ID: 1571237059**

**Zainab A Mohammed, Hazim G Kalt** - Power Exponential-Exponential Distribution with Application to Engine Systems

## **G-32 Paper ID: 1571260414**

**M P; R Malick; M. R. A Jenis** - Quantum-Infused Attrition and Retention Intelligence System: A Real-Time Framework for Students and Employees

## **G-34 Paper ID: 1571253159**

**Gandhi Edhala, Venkata Jayadeep Patibandla, Chandan Malagalu Nagaraju** - Resilience-Aware Architectural Modeling for Mission-Critical Healthcare Data Systems

## **G-35 Paper ID: 1571259529**

**Minh La Tuan, Viet-Hoan Bui, Nguyen Van Thang, To-Hieu Dao** - Respiratory Rate Estimation for the Elderly Deployed on Low-Power Microcontrollers

## **G-36 Paper 1571238686**

**Varun HG, Vishnu Venkatesh Vasista, Ashwin PM, Yamanuri Shrishail Nad, Swati Pratap Jagdale** - Social Media Bot Detection with Multimodal Sentiment Analysis

## **G-37 Paper 1571240081**

**Mehazabin Hossain Lamiha, Md. Ehsanul Haque, Jeba Maliha, Md Naimul Islam, Sabrina Khan Mim, Md Asif Khan** - TriTree-VoteNet: An Interpretable Soft Voting Ensemble Framework for Liver Disease Diagnosis

# Day – 3 (AM)



**Dr. Ayman Aljarbouh**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **D-7 Paper ID: 1571260473**

**Elmer Arellanos-Tafur** - Operational Efficiency Clustering Analysis of Wind Farms in Peru Using Multidimensional Performance Metrics

## **D-9 Paper ID: 1571260477**

**Elmer Arellanos-Tafur** - Recurrence Quantification Analysis Applied to Energy Production in Monocrystalline and Polycrystalline Solar Panels

## **D-11 Paper ID: 1571251371**

**Abdul Salam Abdul Karim** - Thermal-Aware Signal Integrity and Fault Propagation in Distributed Electrification Architectures for Intelligent Vehicles: A System Level Safety and Reliability Analysis

## **G-38 Paper ID: 1571257774**

**Asar Abdul Karim** - User Perceptions of a Unified Character (Ḥ) for Arabic Tā' Marbūṭah Transliteration: A Survey Study

## **G-40 Paper 1571240121**

**S. Maheswari, V. S. Harilakshmi, S. Piramu Kailasam, V. Dhilipkumar, Krishnammal Narayanan, S. Sowmyayani** - Visual Person Recognition Using CrossAttention Fusion

## **G-41 Paper 1571250858**

**Shane Robertson, Muhammad Diyan, Hiba Alsmadi** - Real-Time 3D Point Cloud Segmentation for Volumetric Weight Estimation Using a Neural Network in a Mixed Reality Environment

## **G-42 Paper 1571257102**

**Sandeep Bharadwaj Mannapur** - Q-RAG Feedback-Driven Adaptive Gatekeeper for Retrieval-Augmented Generation

# Day – 3 (AM)



**Dr. Hiren Mewada**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room C (Online)

Room C (Online)

[Link](#)

## **A-17 Paper ID: 1571260219**

**Jaynil DimpalKumar Panjwani, Neha Agrawal, Abhishek Hazra, Lokendra Chouhan** - SARA-6G: Standards-Aligned Resource Allocation for 6G

## **A-18 Paper ID: 1571265274**

**Jayant Kumar Rout, Rahul Priyadarshi, Soumya Jain, Anish Kumar Vishwakarma, Rakesh Ranjan** - Self-Organizing Distributed Node Deployment for Reliable Wireless Sensor Networks

## **A-19 Paper ID: 1571260730**

**Nguyen Quang Anh, Dat Tran-Huy, Cuong Do-Manh, Anh Tran-Tuan** - Single-Layer Wideband High-Gain Non-Uniform Metasurface Antenna for C-Band Applications

## **A-20 Paper ID: 1571256941**

**Nam Van Dinh, Ngoc-Thanh Nguyen, Thuan Van Le** - Tabu Search-Based User Scheduling and Analog Beam Selection for CSI-Light Opportunistic Hybrid Beamforming in mmWave

## **A-21 Paper ID: 1571239714**

**Manvi Manjunath, Tarun Alur Gowri Shankar, Nikhil Shiraguppi, Shagun Gupta** - Time-Synchronized Wearable Sensor Fusion for Real-Time Multi-Muscle Fatigue and Gait Asymmetry Analysis

## **A-22 Paper ID: 1571260463**

**Elmer Arellanos-Tafur** - Unsupervised Temporal Clustering of Solar Power Plants Using K-Means and DBSCAN for Production Pattern Recognition

# Day – 3 (AM)



**Dr. Kamran Ali**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **C-17 Paper ID: 1571236887**

**Naors Y Anad Alsaleem, Samah Fakhri Aziz, Dhuha Amer jaleel, Laith Saadi Salman** - Intrusion Detection Using HHO-GWO Feature Selection and a Stacking Ensemble Classifier

## **C-18 Paper ID: 1571251338**

**M Allahham; B Almagharbeh; J AlKhateeb** - Metaverse Adoption in Reverse Supply Chain Systems and Operational Performance the Mediating Role of Blockchain Enabled Traceability

## **C-19 Paper ID: 1571254774**

**Atul Kumar, Bisham Sharma, Rajesh Kaushal, Imed Saad Ben Dhaou** - Privacy-Preserving Identity Management System Leveraging Blockchain Technology

## **C-20 Paper ID: 1571231108**

**Jency A, Jayapandian N** - Quantum-Resilient and Energy-Efficient Blockchain Cryptography in Decentralized Networks

## **C-22 Paper ID: 1571236726**

**Sumit Sharma, Tanu Sharma, Meghna Dhalaria** - Social Media Marketing and Access Control Cybersecurity APIs

## **C-23 Paper ID: 1571259601**

**Somnath Sinha, Binayak Dutta, Ishan Chowdhury** - Systematic Analysis of Cybersecurity Attacks and Evaluation of Mitigation Strategies

# Day – 3 (AM)



**Dr. Muhammad Asghar**

Session Chair

Time: 10:00am-11:30am (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **A-23 Paper ID: 1571240052**

**Israe Dardak, Ibraheem Al-Naib** - Microwave Localization of Cardiogenic Pulmonary Edema with a Programmable Metasurface

## **B-30 Paper ID: 1571260274**

**Anwasha Kashyap, Angshuman Jana** - Static Analysis of Integrity Constraints in Database Applications Using Semantic-Based Approach

## **E-19 Paper ID: 1571259446**

**Viet-Hoan Bui, Thien-Thanh Nguyen, Thang Nguyen Van, To-Hieu Dao** - Signal Processing Techniques for Enhancing Accuracy in Integrated HAR-IPS for Firefighters

## **E-20 Paper ID: 1571261185**

**Viet-Hoan Bui, Duc-Nghia Tran, Pham Huy, Ngo Van Cong, To-Hieu Dao** - Signal Processing-Driven Real-Time Rough Road Detection with GPS Accuracy Improvement on Edge Microcontrollers

## **E-21 Paper ID: 1571248768**

**Nagabushanam Perattur, Radha Subramanyam, Saravanan S, Nara Kavya, Mondy Vinod Kumar, J. Sunitha Kumari** - Sobel Edge Detection Framework Based Hardware-Software Co-Design FPGA Implementation for Brain MRI Image Analysis

## **G-17 Paper ID: 1571231768**

**Ilham Nait Him, Yassine Salih-Alj** - Dynamic Modeling and Control of a Cost-Effective AUV for Environmental and Infrastructure Inspection: A Moroccan Case Study

## **G-43 Paper ID: 1571241131**

**Mohammad Arafath Uz Zaman Khan, Sayed Sayem, Md Amzad Sadik Abid, Muntasir Karim Chowdhary, Md Maniruzzaman, Shahadat Jaman** - A Robust Random Forest Framework for Early Heart Disease Prediction

# Day – 3 (PM)



**Dr. Ehsan Rehman**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room A (Online)

Room A (Online)

[Link](#)

## **M-1 Paper ID: 1571238720**

**Ahmed Alzaid, Mohammed Alkhayyal, Thamer Dajam, Muhammad Khan** - Towards an Explainable Framework for Arabic Fake News Detection: A Systematic Review

## **M-2 Paper ID: 1571235374**

**Hamd Mohamed, Umar Khan, Osama Saied, Khaled Algarari** - Localization of Partial Discharge in Outdoor Environment When Propagation Environment is Unknown

## **M-3 Paper ID: 1571260079**

**Vihanga Supasan Kariyakaranage, Banuka Athuraliya** - Boundary Conditions of Cost-Aware Active Learning: A Multi-Dataset Taxonomy of Calibration and Length-Variance Failure Modes

## **M-4 Paper ID: 1571259739**

**Ishan Dubey, Joydeep Mandal, Khushav Grover, Rashmi Bhel** - Transformer-Based Multimodal Fusion for Conversational Affective State Assessment: A Cross-Modal Attention Approach

## **M-5 Paper 1571240170**

**Saiqa Imtiyaz, Ibraheem Al-Naib, Ali Sameeh Saleh Alhaj Abbas** - Free-Standing Symmetric Complementary Terahertz Metasurface for Non-Invasive Glucose Sensing

## **M-6 Paper 1571247913**

**Maqsood Mahmud, Zeeshan Tariq, Muhammed Saeed, Abul Bashar** - Agentic AI Risk Governance a Policy-Driven Regulatory Framework

# Day – 3 (PM)



**Dr. Ibrahim Alghraify**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

## **M-7 Paper ID: 1571260033**

**Philip Budianto, Brandon Jhon, Adele Mailangkay** - Utilizing Artificial Intelligence in Consumer Purchase Decision-Making

## **M-8 Paper ID: 1571260025**

**Philip Budianto, Adele Mailangkay, Brandon Jhon** - The Social Amplification of AI Acceptance: Mapping Attitude Formation and Purchase Intention in Intelligent Retail Environments

## **M-9 Paper ID: 1571240052**

**Israe Derdak, Ibraheem AlNaib** - Microwave Localization of Cardiogenic Pulmonary Edema with a Programmable Metasurface

## **M-10 Paper ID: 1571260173**

**Muhammad Asif, Driss Benhaddou, Ricardo Lent** - Neural Transceiver Design for 6G: Cross-Channel Performance Analysis

## **M-11 Paper 1571260309**

**Syed Arshad Raza, Atiq Siddiqui, Zeeshan Tariq, Abul Bashar** - An Integrated Data-Driven IoT Framework for Real-Time Downstream Petroleum Logistics

## **M-12 Paper 1571246614**

**Rajesh Sharma, Shishir Dixit, Saurabh Rajput** - Demand Side Management: A Review of Enhancing Grid Efficiency by Optimization of Cost and Peak to Average Ratio

# Day – 3 (PM)



**Dr. Shahabuddin Muhammad**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room C (Online)

Room C (Online)

[Link](#)

## **G-21 Paper ID: 1571240023**

**Jahnavi S Kumar, Theresa Clare Alex, Janvii RV, Sudeepa Roy Dey** - Group Research Recommendation Using Ontology-Driven Knowledge Graph Mining and Metaheuristics

## **M-14 Paper ID: 1571260488**

**Shahed Al Tamimi, Qasem Abu Al-Haija, Ahod Alghuried** - Privacy-Encryption Trade-Offs in Social Media Platforms: A Review

## **M-15 Paper ID: 1571259338**

**Elham Anaam, Muhammad Khan, Ghassen Ben Brahim, Muhamed Mudawar** - Improving in Diagnoses: Using a Novel AI Algorithm to Balance Between Accuracy and Patient Privacy

## **M-16 Paper ID: 1571259991**

**Meena Kowshalya, G Suchitra, R Sakthivel, Gaydaa AlZohbi, B Deepanraj** - Cognitive Footprint Consistency: A Novel Trust Aware Metric for Social Internet of Things Devices

## **M-17 Paper ID: 1571260268**

**Onder Koc** - High-Performance Durable LLM Observability at Scale Architecture and Benchmarking of the Opik Platform

## **M-18 Paper ID: 1571250833**

**Mohammad Nour Albaarini, Nouh Elmitwally, Khalid Ismail, Adel Aneiba, Sagheer Abbas** - Safety-Aware Reinforcement Learning for Adaptive Resource Rightsizing in Slurm-Based High-Performance Computing Systems

# Day – 3 (PM)



**Dr. B Deepanraj**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room D (Online)

Room D (Online)

[Link](#)

## **M-19 Paper ID: 1571250899**

**Nouh Elmitwally, Omnia Osman, Areej Fatima, Kamran Memon, Abida Perveen, Faisal Saeed, Muhammad Hassan, Ghulam Muhammad** - On the Impact of Textual Input Configurations in LSTM-Based Fake News Detection

## **M-20 Paper ID: 1571252680**

**Hafsa Waheed, Ghulam E Mustafa Abro, Kamran Memon, Muhammad Asghar Khan, Hashir Bin Masood** - Agro-SENSE: Agronomical Sensing and Enabled Nutrient Stress Evaluation Framework

## **M-21 Paper ID: 1571260113**

**Muhammad Ayzed Mirza, Ahmerkhan Jadoon, Islam Tanash, Kamran Memon** - Meta-DRL-Driven BD-RIS Optimization for Covert IIoT Communication

## **M-22 Paper ID: 1571244586**

**Emma Qumsiyeh, Mutaz Abu Sara, Jawad Alkhateeb, Khaled Musa** - Credit Card Fraud Detection with PySpark MLlib: A Big Data Classification Study

## **M-23 Paper ID: 1571244643**

**Mutaz Abu Sara, Murad Zeer, Jawad Alkhateeb, Khaled Musa** - Machine Learning Classifier Comparative Performance Analysis of Smart Mobility: Multiclass Traffic Congestion Prediction

## **G-19 Paper ID: 1571244357**

**Ashikuzzaman Rimon, Adiba Muttaqin, Purnendu Bhowmik Shuvro, Md. Junaid Rashid** - EfficientShuffleNetV2 framework for automated disease detection in Niphad grape leaves

# Day – 3 (PM)



**Dr. Zaib Jahan**

Session Chair

Time: 1:30pm-3:00pm (KSA)

Location: Room E (Online)

Room E (Online)

[Link](#)

## **M-25 Paper ID: 1571250602**

**Roz Arain, Hafiz Zia Ur Rehman, Zaib Jahan, Syed Gilani, Sara Ali** - Denoising: A Comparative Analysis of Classical, Wavelet, and Autoencoder Methods for Optimal Morphology Preservation

## **M-26 Paper ID: 1571247015**

**Kainat Kainat, Sara Ali, Anum Jaffar, Khawaja Iqbal, Syed Gilani, Yasar Ayaz, Zaib Jahan** - A Multimodal Architecture for Real-Time Automated Attention Monitoring Using Computer Vision

## **M-27 Paper ID: 1571246625**

**Muhammad Zia, Sara Ali, Syed Gilani, Khawaja Iqbal, Anum Jaffar, Yasar Ayaz, Zaib Jahan** - Optimizing Real-Time Visual Emotion Perception Using Influential Landmark-Based Spatial Feature Extraction for Edge Devices

## **M-28 Paper ID: 1571244844**

**Rakoti Harshitha, Boddepalli Sai Krishna, Simhadri Vara Prasad, Bara Prem Kumar, Jami Venkata Suman** - High Performance CMOS Op-Amp Design for Arithmetic, Filtering, and Bio-Potential Applications

## **M-29 Paper ID: 1571246828**

**Tejas Pravinbhai Patel** - Memory-Efficient Speculative Decoding for Large Language Model Inference on Commodity GPUs

## **M-30 Paper ID: 1571267782**

**Thuan Van Le** - Conflict-Triggered Candidate Refinement for Greedy Sector Hybrid Beamforming in mmWave UAV Systems

# Day – 3 (PM)



**Dr. Tejaswita Mishra**

Session Chair

Time: 3:15pm-4:45pm (KSA)

Location: Room A (Online)

Room A (Online)

[Link](#)

## **M-31 Paper ID: 1571258494**

**Md Nazmus Shakib Khan, Md Abdul Ahad Juel, Abu Anas Nasim, Md. Zahidul Islam, Bappaditta Saha Chowdhury, Shahadat Jaman** - Overvoltage Stress Distribution on Transformer Bushings Under the Effect of Electromagnetic Transient Response

## **M-32 Paper ID: 1571240181**

**Mushtaq Mahyooob Saleh, Walla Mustafa, Albraa Ali** - Fundus Image Classification of Eye Disorders Using Random Forest

## **M-33 Paper ID: 1571240141**

**Rajasekaran Thangaraj, Kavinkumar D, Udhay Karthik C, Pravin Kumar S, Sachin Kamaraj** - An Intelligent Vision-Based Surveillance System Using Phi-3 Vision

## **M-34 Paper ID: 1571247022**

**Gautami Gautam Shingan, Priyanka N. Jadhav, Amol M. Jagtap, Tejas N Ghule, Prashant P Nagre** - A Fabric-Aware Intelligent Washing Machine Using Multi-Input Fuzzy Logic Control

## **M-35 Paper 1571261236**

**Sameeha Yasmin, Kiranmaie P** - CARS-M: A Cluster-Aware Risk Scoring Framework for Edge-Enabled Predictive Maintenance

## **M-36 Paper 1571267827**

**Satyanarayana Gudimetla** - UniRelease: A Unified Framework for Addressing Cross-Platform Mobile Application Build and Release Challenges

# Day – 3 (PM)



**Dr. Law Kumar Singh**

Session Chair

Time: 3:15pm-4:45pm (KSA)

Location: Room B (Online)

Room B (Online)

[Link](#)

**M-37 Paper ID: 1571259332**

**Talha Akram** - Sustainable Medical Diagnostics: A Green Edge Framework for Energy-Efficient Intelligence

**M-38 Paper ID: 1571259650**

**Muhammad Imran** - Architecting Trust: A Framework for Secure IoT Systems Through Trusted Execution and Semantic Middleware

**M-39 Paper ID: 1571258594**

**Ahmad Alzahrani** - A Self-Powered Wearable Tracking System Based on Piezoelectric Energy Harvesting for Continuous

**M-40 Paper ID: 1571260665**

**Samuel Abiodun Oyedotun, Joshua Nehinbe, John Temitope Ogbiti** - Benchmarking Sequential Against Parallel Reinforcement Learning for Multi-Agent Swarms in Dynamic Environments

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