



IEEE-CSNT 2026

IEEE 15th International Conference on Communication Systems and Network Technologies

(IEEE-CSNT 2026)

7 - 9 April 2026

www.pmu.edu.sa/csnt2026.com

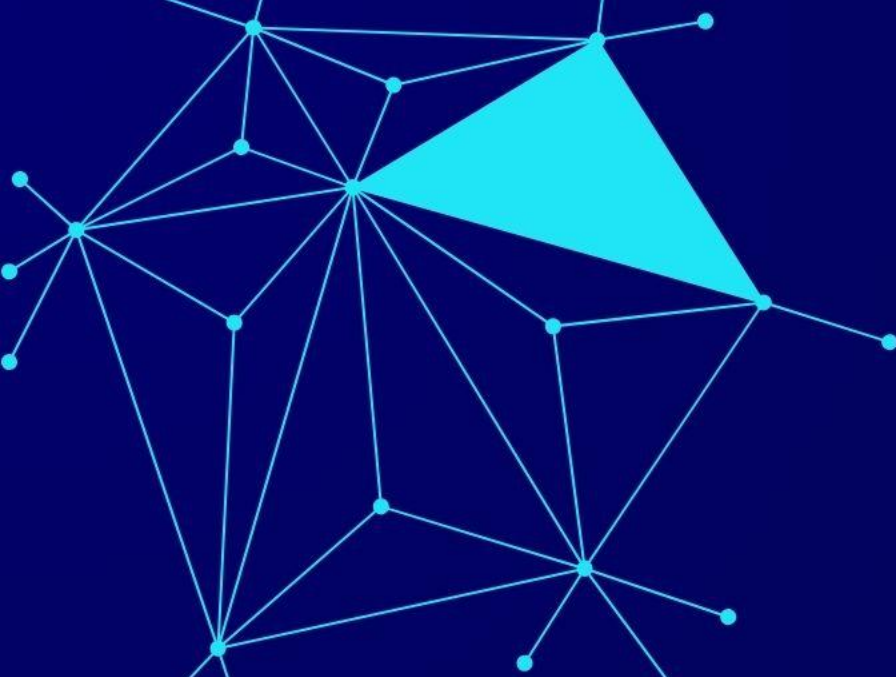
csnt2026@pmu.edu.sa

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.



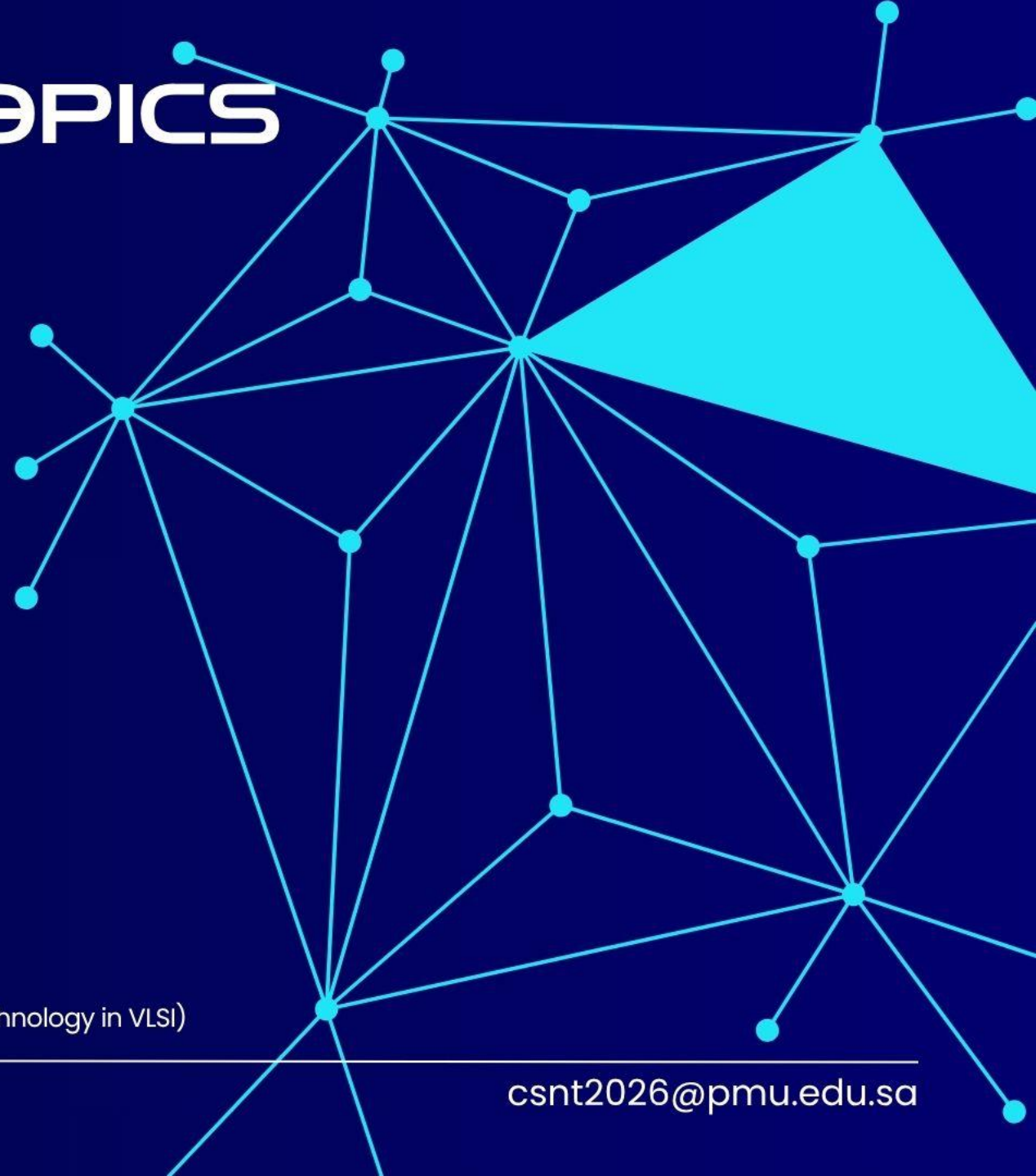
TOPICS OF INTEREST

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**

Opening Ceremony and Keynote Speakers

7-Apr-26 12:15-12:30	Opening Ceremony Dr. Faisal Yousif Al Anezi (VP - Academic Affairs) Conference Chair MS Teams Link
7-Apr-26 12:30-13:00	Day 1 - Keynote Speaker Ms. Cliona O'Boyle Talk Title: Innovation by Design: Evolving the BT Ireland Innovation Centre for Greater Strategic Impact MS Teams Link
8-Apr-26 12:30-13:00	Day 2 - Keynote Speaker Prof. Bryan Scotney Talk Title: AI-based Analytics for Service Enhancement and Operational Delivery MS Teams Link
9-Apr-26 11:30-12:15	Day 3 - Keynote Speaker Prof. Amir Hussain Talk Title: Towards Trustworthy Artificial Intelligence: Real-World Use Cases, Challenges and Opportunities PMU Male Lecture Hall
9-Apr-26 12:15-13:00	Day 3 - Keynote Speaker Prof. Muhammad Khurram Khan Talk Title: Securing the Intelligent Future: AI Vulnerabilities and AI-Driven Resilience in Hyper-Connected Systems PMU Male Lecture Hall

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 - A Layered Machine Learning and Smart Contract Framework for DDoS Botnet Defense in IoT Networks

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 Mahyoob 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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