DAY 1 | Wednesday, 18 November 2026

Three parallel tracks | InterContinental Regency Bahrain | All times Bahrain (UTC+3)

TIME	TRACK A	TRACK B	TRACK C
08:00–09:00	Registration		
09:00–10:00	Opening Ceremony (H.E. the UoB President·s Speech; Keynotes 1 & 2)		
10:00–10:30	Coffee Break		
10:30–11:50	**D1-A1: Secure LLMs & Generative AI Systems**	**D1-B1: Explainable AI for Health & Predictive Analytics**	**D1-C1: Smart Infrastructure, Robotics & Energy AI**
11:50–12:20	Coffee Break		
12:20–13:40	**D1-A2: LLM Robustness, Safety & Prompt Security**	**D1-B2: AI Optimization, Vision & Immersive Computing**	**D1-C2: Threat Detection, Phishing & Digital Forensics**
13:40–14:40	Lunch Break		
14:40–16:00	**D1-A3: Cybersecurity Governance, Risk & Cloud Forensics**	**D1-B3: IoT Security, Intrusion Detection & Federated AI**	**D1-C3: Intelligent Communications & Secure AI Applications**

Each paper: 15-minute presentation + 5-minute Q&A. Day 1 has two 30-minute coffee breaks. D1-A2 has three papers; Day 2 D2-A1 has five.

DAY 2 | Thursday, 19 November 2026

Three parallel tracks | InterContinental Regency Bahrain | All times Bahrain (UTC+3)

TIME	TRACK A	TRACK B	TRACK C
09:00–10:40	**D2-A1: Cybersecurity, Phishing & Adversarial AI**	**D2-B1: AI for Healthcare & Clinical Decision Support**	**D2-C1: Next-Generation 5G/6G & Digital Twin Networks**
10:40–12:20	**D2-A2: Privacy-Preserving AI & Security Analytics**	**D2-B2: Computer Vision & AI for Real-World Monitoring**	**D2-C2: Intelligent Networks & Emergency Communications**
12:20–12:35	Coffee Break		
12:35–14:15	**D2-A3: Intelligent Cloud, FinTech & Agentic Security**	**D2-B3: Machine Learning, Optimization & Predictive Models**	**D2-C3: IoT Applications, Smart Energy & Logistics**
14:15–15:15	Lunch Break		
15:15–16:55	**D2-A4: Smart Cities, Sustainable Systems & Monitoring**	**D2-B4: Big Data, Health AI & Knowledge Systems**	**D2-C4: Digital Education, HCI & Computing Systems**
16:55–17:40	Keynote 3		
17:40–18:00	Conference Closing		

Each paper: 15-minute presentation + 5-minute Q&A. Day 1 has two 30-minute coffee breaks. D1-A2 has three papers; Day 2 D2-A1 has five.

DAY 1 | Wednesday, 18 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D1-A1 | 10:30 AM – 11:50 AM | Secure LLMs & Generative AI Systems

Time	Paper title	Authors
10:30 AM – 10:50 AM	Design and Evaluation of a Secure RAG-Based AI-Powered Virtual University Assistant	Nayla Khalid Aljaber; Latifa Alkooheji, Jumana Bucheeri, Zahra Nayem and Abdulla Aldoseri
10:50 AM – 11:10 AM	QueryMind: Design and Evaluation of Secure and Privacy-Preserving Text-to-SQL Using Schema-Aware RAG and LLMs	Mohamed Almaraghi; Ali Alsowaidi, Abdulrahman Bumeajib and Abdulla Aldoseri
11:10 AM – 11:30 AM	Fine-Tuning Large Language Models for Secret Detection in Postman API Collections	Ali Mohsin; Mahmood Sabt; Wael M El-Medany
11:30 AM – 11:50 AM	ShellSentry: A Defense-in-Depth Framework for Secure Natural Language-to-Bash Execution on Remote Linux Systems	Dana Hussain, Aljazi Ali Almujaddam and Abdulla Aldoseri

D1-B1 | 10:30 AM – 11:50 AM | Explainable AI for Health & Predictive Analytics

Time	Paper title	Authors
10:30 AM – 10:50 AM	Explainable Machine Learning for Breast Cancer Survival Prediction Using SEER Clinical Data	Mohammed Majid M Al Khalidy; Abdulrahman Abdulla Al Khaja
10:50 AM – 11:10 AM	Beyond Prediction: An Explainable AI Framework for Early Risk Detection, Personalised Intervention Planning, and Dynamic Reassessment of At-Risk Students	Israa Tajaldin and Shahnawaz Khan
11:10 AM – 11:30 AM	A Diagnosis-Informed Multitask Framework for Multimodal Cardiopulmonary Prediction	Arwa Salem Yalos Alenezi; Mohammed Majid M Al Khalidy
11:30 AM – 11:50 AM	Explainable Deep Learning for Remaining Useful Life Prediction in Rotating Machinery	Muhammad Farrukh Amin and Mohab A Mangoud M

DAY 1 | Wednesday, 18 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D1-C1 | 10:30 AM – 11:50 AM | Smart Infrastructure, Robotics & Energy AI

Time	Paper title	Authors
10:30 AM – 10:50 AM	Design and Implementation of a Backend Verified Smart Lock Using Bluetooth Low Energy, Hash-based Message Authentication Code, and Email One-Time Password	Mohammed Majid M Al Khalidy; Ebrahim Khalil Alanzoor and Saud Naeem Al-Khal
10:50 AM – 11:10 AM	Voice-Based Authorization for Humanoid Robot Control Using Machine Learning	Mohammed Majid M Al Khalidy; Sayed Muntadher Al Najjar
11:10 AM – 11:30 AM	A Comparative Evaluation of Machine Learning for Early Warning of EV-Induced Grid Violations in Bahrain's LV Network	Mohammed Majid M Al Khalidy; Ahmed Alfardan
11:30 AM – 11:50 AM	AI-Based Energy Loss Reduction in Distribution Networks: Two-Stage Loss Forecasting and Label-Aware Electricity-Theft Detection	Alawi Sharaf and Zouhir Bahri

D1-A2 | 12:20 PM – 1:40 PM | LLM Robustness, Safety & Prompt Security

Time	Paper title	Authors
12:20 PM – 12:40 PM	PromptExtract: A FuzzyAI Extension for Black-Box Vulnerability Assessment of System Prompt Extraction in LLMs	Husain Jameel; Salman Mohamed Mohamed and Murtadha Ahmed Yahya; Abdulla Aldoseri
12:40 PM – 1:00 PM	Developing a Structured Framework for Effective Cyber Risk Managementk: A Systematic Literature Review	Osama Erfaei Mohamed (University of Bahrain, Bahrain & National Cyber Security Center , Bahrain); Yusuf Mothanna; Ali Hussein Saleh Zolait and Wael M El-Medany
1:00 PM – 1:20 PM	A Context-Aware, Multimodal AI Gateway for Real-Time Child-Safe Social Media Content Moderation	Hussah Adnan Almuhareb and Wael M El-Medany

13:20–13:40: No paper scheduled in Track A.

DAY 1 | Wednesday, 18 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D1-B2 | 12:20 PM – 1:40 PM | AI Optimization, Vision & Immersive Computing

Time	Paper title	Authors
12:20 PM – 12:40 PM	Comparative study between standard Genetic algorithms and Machine-Learning assisted Genetic algorithms for smart home scheduling	Abdulla Desmal and Zahraa Sayed Mohamed
12:40 PM – 1:00 PM	Designing Immersion: UI/UX Design and Development of a Virtual Reality Application for Cultural Heritage Tourism	Bashayer Khalifa Aldoseri, Rahaf Nabil Shehada and Amna Khalid Othman; Hadeel Alobaidy
1:00 PM – 1:20 PM	Robustness Analysis of Semantic Segmentation Architectures Under Simultaneous Stochastic and Spatial Interference	Alauddin Yousif Al-Omary and Hessa Abdulla Albuflasa
1:20 PM – 1:40 PM	Assessing the Utility of Topological Filters in Graph-based Deep Clustering Models	Huda Fardan, Riyadh Ksantini and Abdulla Ebrahim

D1-C2 | 12:20 PM – 1:40 PM | Threat Detection, Phishing & Digital Forensics

Time	Paper title	Authors
12:20 PM – 12:40 PM	OpticNet: A Unified Platform for Network Visualization, Vulnerability Discovery, and AI-Guided Remediation	Maryam Isa Abdulla Alhawi, Maryam Ali Hasan Darwish and Abdulla Aldoseri
12:40 PM – 1:00 PM	PhishArena: A Controlled Interactive Phishing Simulation Platform with Hybrid LLM-Assisted Evaluation	Abdulla Aldoseri, Aldana Althawadi, Ghufran Shaikh Mohammed and Haya Alkaabi
1:00 PM – 1:20 PM	A Steganalysis Framework Based on Machine Learning for Detecting Modern Data-Hiding Techniques in Multimedia Files	Ali Hussein Saleh Zolait, Hawra Fadhel Abbas and Khaireya Husain Alhaiki
1:20 PM – 1:40 PM	A Comparative Review of Machine Learning Models for Email Spam Detection	Bashayer Husain; Wael M El-Medany; Saeed Sharif (UEL, United Kingdom)

DAY 1 | Wednesday, 18 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D1-A3 | 2:40 PM – 4:00 PM | Cybersecurity Governance, Risk & Cloud Forensics

Time	Paper title	Authors
2:40 PM – 3:00 PM	Evaluating the Robustness of Quantized Open-Weight LLMs to Indirect Prompt Injection and Light-Weight Defenses	Mubarak AlZaabi
3:00 PM – 3:20 PM	Ethical Governance of Deepfake Technology in Cybersecurity: A Literature Review	Osama Erfaei Mohamed (University of Bahrain, Bahrain & National Cyber Security Center , Bahrain); Ali Farid Kassem, Mohammed Redha Qader and Fatema Albalooshi
3:20 PM – 3:40 PM	A Comprehensive Review of Digital Forensic Challenges in Cloud Computing Environments	Osama Erfaei Mohamed (University of Bahrain, Bahrain & National Cyber Security Center , Bahrain); Yusuf Mothanna; Wael M El-Medany
3:40 PM – 4:00 PM	Synchrophasor Systems for IT Professionals: A Review of Architecture, Cybersecurity, and Research Directions in the Context of Saudi Arabia's Net-Zero 2060 Transition	Hazim Al-Sibai; Rafat Rob; Wael M El-Medany

D1-B3 | 2:40 PM – 4:00 PM | IoT Security, Intrusion Detection & Federated AI

Time	Paper title	Authors
2:40 PM – 3:00 PM	Lightweight Edge Deception with Unsupervised Risk Scoring for IP Video Surveillance: A Framework and Evaluation Methodology	Mona Fahad
3:00 PM – 3:20 PM	Centralized vs. Federated Learning for Cyber-Attack Detection in Smart Water Systems: A Systematic Review of Reported Performance	Nurulain Zulfiqar
3:20 PM – 3:40 PM	Risk-Aware IoT Intrusion Detection: Integrating Machine Learning with NIST and ISO 27001 Compliance Controls	Turki Al Ali and Wael M El-Medany
3:40 PM – 4:00 PM	The Key to Secure IoT: Effective Authentication and Access Control Solutions	Taif Nabeel Shehada

DAY 1 | Wednesday, 18 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D1-C3 | 2:40 PM – 4:00 PM | Intelligent Communications & Secure AI Applications

Time	Paper title	Authors
2:40 PM – 3:00 PM	Intelligent FIFO Sizing for FPGA Based High Energy Physics Data Acquisition System	Amna Mohammed Abdulla; Mohammed Majid M Al Khalidy; Mehmet Özgür Sahin
3:00 PM – 3:20 PM	A Semantic Communication Framework for 6G Using Edge-Deployable Large Language Models	Ahmad Abdulkareem Jaber, Mohab A Mangoud M and Saeed Serwan Abdulsattar; Fayzeh Abdulkareem Jaber
	No paper scheduled	
3:40 PM – 4:00 PM	AI-Driven Automated Incident Response in Zero Trust Environments Using Artificial Neural Networks	Mohamed Hasan; Jenan Hasan

D2-A1 | 9:00 AM – 10:40 AM | Cybersecurity, Phishing & Adversarial AI

Time	Paper title	Authors
9:00 AM – 9:20 AM	DeepFakeGuard-Text: A Lightweight Transformer Detector for AI-Generated Text and an Evaluation of Embedding-Space SMOTE	Bayan Alfarrayeh, Mais Alashqar, Marya Hani Sabeha, Farah Ghassan Abu Al-Soud and Qasem Abu Al-Haija
9:20 AM – 9:40 AM	Interpretable Phishing Email Detection Using Concept Bottleneck Models	Yara Said Abdallah; Ali Ballout and Nazih Salhab
9:40 AM – 10:00 AM	An HDFS-Spark-CNN Workflow for Malware Family Classification: A Retrospective Case Study	Afrin Nanmi, Saeed Sharif, Khawaja Daim Asif Ansari and Kimiya Sadeghi Dastjerdi (UEL, United Kingdom)
10:00 AM – 10:20 AM	EarlyShield-UQ: Uncertainty-Gated Early-Exit TCNs for Low-Latency DDoS Detection Under Cross-Day Attack Shift	S. P. Vidyassri, Fathima Thanseem, L. Keerrthivasan, B. Lithika and S. Reethashree; Divyanshu Sharma
10:20 AM – 10:40 AM	Adversarial Robustness of Large Language Models in Misinformation Detection: A Comparative Eval-uation Using the Adversarial Prompt Evaluation Framework	Saeed Sharif, Afrin Nanmi and Jitendra Seelankala (UEL, United Kingdom); Wael M El-Medany

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-B1 | 9:00 AM – 10:40 AM | AI for Healthcare & Clinical Decision Support

Time	Paper title	Authors
9:00 AM – 9:20 AM	A Statistically Reliable and Explainable XGBoost Framework for Pediatric Anemia Classification	Md. Ehsanul Haque; Sharar Irfan Ahmed, Md. Saymon Hosen Polash, Pintu Chandra Shill, Mohamed Ruhul Amin and Sohel Rana
9:20 AM – 9:40 AM	Quality-Aware and Risk-Sensitive Deep Learning for Selective Pneumonia Decision Support Under Domain Shift	Muhammad Uzair Khan, Afrin Nanmi and Saeed Sharif (UEL, United Kingdom)
9:40 AM – 10:00 AM	Deep Learning for Ultrasound Thyroid Nodule Classification: A Comparative Study	Mir Hasnain Hyder; Mir Allahyar Khan Talpur and Ramesh Kumar Ayyasamy (Universiti Tunku Abdul Rahman , Malaysia); Mubariz Rehman; Syed Saad Ahmed (Universiti Tunku Abdul Rahman , Malaysia); Hamid Ur Rehman
10:00 AM – 10:20 AM	Beyond Marginal Coverage: Auditing Conformal Prediction for Medical VQA	Ahmed Mellit; Achraf Cohen; Hafssa Benaboud
10:20 AM – 10:40 AM	Gated CNN-ViT Fusion for Five-Class Diabetic Retinopathy Grading: Benchmarking Ten Backbones and a Hybrid ResNet50-ViT-Base-16 Model	Md. Sifatuzzaman Mia, MD. Refat Sarder, Nabonita Halder Bina, Md. Sabbir Ahamed, Abdullah Al Faiyaz Sina and Md. Sadekur Rahman

D2-C1 | 9:00 AM – 10:40 AM | Next-Generation 5G/6G & Digital Twin Networks

Time	Paper title	Authors
9:00 AM – 9:20 AM	Safety-Constrained Adaptive Deep Reinforcement Learning for PRACH Overload Control in 5G-Advanced and Beyond Networks	Fawaz Abdallah and Saad Ahmed Ayoob
9:20 AM – 9:40 AM	Predicting Optimal Data Transmission Strategies in IoV: A Comparative Study of Edge Processing over 5G, Wi-Fi, and LoRaWAN	Omar Dario Delgado Brito; Alexandra Macarena Flores; Víctor José Huilca; Miguel Angel Osorio
9:40 AM – 10:00 AM	Tail-Risk and Medical-Digital-Twin-Aware Predictive Orchestration for Hyper-Reliable 6G Healthcare Slices	Jihane Benbrik; Houssam Benali; Asmaa Kharouaa; Aya Bouri; El Miloud Ar-Reyouchi; Kamal Ghoumid
10:00 AM – 10:20 AM	Shift-Aware Conformal Ensemble Forecasting for Proactive Medical Internet-of-Things Slice Orchestration in 6G	Houssam Benali; Jihane Benbrik and Aya Bouri; Asmaa Kharouaa; El Miloud Ar-Reyouchi; Kamal Ghoumid
10:20 AM – 10:40 AM	Age-of-Digital-Twin and Carbon-Aware Scheduling for Sustainable 6G Smart-City Internet of Things	Aya Bouri; Asmaa Kharouaa; Jihane Benbrik; Houssam Benali; El Miloud Ar-Reyouchi; Kamal Ghoumid

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-A2 | 10:40 AM – 12:20 PM | Privacy-Preserving AI & Security Analytics

Time	Paper title	Authors
10:40 AM – 11:00 AM	Beyond Recognition: Integrating Facial and Emotion Analysis to Secure and Humanize the Airport Experience	Chinmai Aditya Baddepuram (UEL, United Kingdom); Zainb Dawod (University of East London , United Kingdom); Saeed Sharif (UEL, United Kingdom)
11:00 AM – 11:20 AM	Attack Advantage Can Measure Class Ratio Rather Than Leakage: A Forensic Audit of Synthetic Tabular Data Evaluation	Afrin Nanmi, Chukwuemeka Iheanyichukwu Onyenokporo, Kimiya Sadeghi Dastjerdi and Saeed Sharif (UEL, United Kingdom)
11:20 AM – 11:40 AM	Joint Evaluation of Non-IID Robustness and Poisoning Vulnerability in Federated Medical Image Classification	Kimiya Sadeghi Dastjerdi, Afrin Nanmi and Saeed Sharif (UEL, United Kingdom)
11:40 AM – 12:00 PM	FL-TVDP: Threshold-Verifiable Secure Aggregation with Distributed Differential Privacy for Collusion-Resilient Federated IoT Intrusion Detection	Muhammad Zunnurain Hussain; Muhammad Zulkifl Hasan; Saheef Abbas
12:00 PM – 12:20 PM	MediGuard: A Minority-Aware, Cost-Sensitive, and Interpretation-Consistent Lightweight Framework for Internet of Medical Things Intrusion Detection	Muhammad Zunnurain Hussain; Muhammad Zulkifl Hasan; Saheef Abbas; Huzaifa Bin Munir

D2-B2 | 10:40 AM – 12:20 PM | Computer Vision & AI for Real-World Monitoring

Time	Paper title	Authors
10:40 AM – 11:00 AM	YOLOv11-Based Escalator Hazard Prevention Using Dual-Camera Monitoring and Automated Audio-Visual Alerts	Joseph Mark M. Centeno, Tristan Kyle A. Siazon, Angelo C. Tagalag and Gerald P Arada
11:00 AM – 11:20 AM	CCTV Integrated with Thermal Sensors for Fire and Person Detection Using YOLO11n with Real-Time Notification Alert System	Ellis Dominic P. Chua, Tobi Andrei Q. Laher, Miguel Tristan Mortega, Gabrielle C. Simbulan and Gerald P Arada
11:20 AM – 11:40 AM	AppleDisease-1K: Benchmarking Deep Learning Models for Reliable Healthy-Infected Apple Classification	Mir Allahyar Khan Talpur and Ramesh Kumar Ayyasamy (Universiti Tunku Abdul Rahman , Malaysia); Mubariz Rehman; Mir Hasnain Hyder; Kesavan Krishnan; Roshan Kumar (Universiti Tunku Abdul Rahman , Malaysia)
11:40 AM – 12:00 PM	MAMSE-EfficientNet: Microscopy-Aware Multi-Stage Image Enhancement Guided Deep Learning for Canine Blood Parasite Detection	Zoren P Mabunga, AprilJoyce M. Mapa, Katrin Joy D. Pornosdoro and Maurine C. Panergo; Dan Arris Lauresta
12:00 PM – 12:20 PM	A Two-Component AI Framework for Early Warning and Image-Based Diagnosis of Tuta Absoluta in Tomato Crops	Saja Salahiden Hwaishel and Shadia Yahya Baroud

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-C2 | 10:40 AM – 12:20 PM | Intelligent Networks & Emergency Communications

Time	Paper title	Authors
10:40 AM – 11:00 AM	A Comparative and Explainable Machine Learning Framework for Elevated Anxiety Symptom Prediction in Gamers	Saeed Sharif, Afrin Nanmi and Jitendra Seelankala (UEL, United Kingdom)
11:00 AM – 11:20 AM	Design and Evaluation of an AI-Assisted Decision Support System in Microsoft Power BI	Muhammad Nabeel, Afrin Nanmi and Saeed Sharif (UEL, United Kingdom)
11:20 AM – 11:40 AM	RDECS: A Portable Radio Repeater with RF-Cellular Interoperability for Emergency Communications	Faith Allison B. Buenaobra, Franchesca Isabel T. Dela Torre, Audrey Marie G. Hans, Jimica Charise G. Lau and Gerald P Arada
11:40 AM – 12:00 PM	An ESP-NOW-Based Emergency Response System for Mining Using Multi-Hop Topology	Aerah Marie E. Alejandre, Adrian Marco S. Mortiz, Harold James S. Ordonez, Sarah Elizabeth C. Timbang and Gerald P Arada
12:00 PM – 12:20 PM	Temporal Characterization and Machine-Learning-Based Prediction of Television White-Space Availability Using Continuous UHF Spectrum Measurements	Annie Liza C. Pintor; Gerald P Arada

D2-A3 | 12:35 PM – 2:15 PM | Intelligent Cloud, FinTech & Agentic Security

Time	Paper title	Authors
12:35 PM – 12:55 PM	LambdaForge: An Empirical Evaluation of Cost, Tail Latency, and Reliability in Serverless Algorithmic Trading	Vishwak Thatikonda; Shravani Parsi
12:55 PM – 1:15 PM	RFMD Islamic Framework: A Scoping Review of Donor Retention in Islamic Digital Philanthropy	Najwan Firdaus Haris and Irmasari Hafidz; Nur Aini Rakhmawati
1:15 PM – 1:35 PM	Confidential Computing in Practice: Evaluating Memory Isolation, Remote Attestation, Latency, and Cold-Start Cost in AWS Nitro Enclaves	Rajendranath Rengan Nambirajan; Abhimanyu Garg, Shasha Nigam and Sangharsh Agarwal
1:35 PM – 1:55 PM	From Prompt Injection to Authorized Tool Abuse: A Factorial Security-Control Testbed for MCP-Shaped Agentic Workflows	Valeri Milke

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-B3 | 12:35 PM – 2:15 PM | Machine Learning, Optimization & Predictive Models

Time	Paper title	Authors
12:35 PM – 12:55 PM	Machine Learning Prediction of Wellhead Pressure Correction for Virtual Well Testing	Dwi Widardo; Rarasmaya Indraswari
12:55 PM – 1:15 PM	Exploratory Multimodal Analysis of Affect and Aggression Using Voice and Smartphone Interaction Patterns	Urbano B Patayon; Melvin A. Ballera
1:15 PM – 1:35 PM	A Memetic Multi-Objective Genetic Algorithm for Motif Discovery in PAM50 Breast-Cancer Gene Promoters: A MOGAMOD Extension with NSGA-II and NSGA-III	Hind Ayad Majeed Alkakjea; Erdal Özbay; Mehmet Kaya
1:35 PM – 1:55 PM	Sequence-Aware Multi-Graph Encoding for Temporal Link Prediction in Cryptocurrency Networks	Ansu Badjie; Toussaint Elvis Compaore; Diedhiou Bacary, Mohammed Tamimu Gadafi, Grace Mupoyi Ntuala and Aly Boro
1:55 PM – 2:15 PM	A Model Proposal for Multi-Defect Classification in Fuzzy Statistical Process Control	Ibrahim Maher Said Bakr, Ismail Aburesha and Ali Karasan

D2-C3 | 12:35 PM – 2:15 PM | IoT Applications, Smart Energy & Logistics

Time	Paper title	Authors
12:35 PM – 12:55 PM	DapatWatt: Design and Field Evaluation of an AIoT-Based Residential Energy Management System	Erwin B. Bonto, Marci Angelo Q. Lara, Sean Francis C. Natividad, Kate Zyrll M Plantilla and Gerald P Arada
12:55 PM – 1:15 PM	Design and Implementation of a LoRaWAN-Based Tracker for Mountain Bikers	Nathaniel Dale S. Crisaldo, Patrick Miles L. Cheong, John Clarence V. Manga, Chester Russell U. Tan and Gerald P Arada
1:15 PM – 1:35 PM	Smart Energy Management and Cloud Monitoring of Solar Power System for Sustainable Electricity	Auday Al-Mayyahi and Zainab Ali Khalaf; Ammar A Aldair and Mussab Yousif Ahmed
1:35 PM – 1:55 PM	Optimal Routing Algorithm for Disaster Relief Goods Distribution System	Ann E Dulay
1:55 PM – 2:15 PM	IoT-Enabled Soil Moisture Monitoring and Automated Watering System	Joash Mari P. Manzanero; Almet R Tesorero, Arjay G Neri, John Joshua F. Montañez and Donna T. San Antonio; Roy Dialogo Tipones

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-A4 | 3:15 PM – 4:55 PM | Smart Cities, Sustainable Systems & Monitoring

Time	Paper title	Authors
3:15 PM – 3:35 PM	Evaluating Cross-City Spatial Transferability of Multi-Modal Neural Networks in Retail Location Intelligence: A Case Study in Vietnam	Lam Mai and Duc-Trien Nguyen
3:35 PM – 3:55 PM	A Retrospective Review of Isolation Forest and Threshold Monitoring in a Kubernetes Case Study	Afrin Nanmi, Kimiya Sadeghi Dastjerdi and Saeed Sharif (UEL, United Kingdom)
3:55 PM – 4:15 PM	An Attention-Enhanced Deep Reinforcement Learning Framework for Adaptive Traffic Signal Control	Aftab Ali; Rahmad Sadli (Universiti Tunku Abdul Rahman , Malaysia); Fityanul Akhyar; Muhammad Husaini Nadri; Mahnoor Izzat
4:15 PM – 4:35 PM	Artificial Intelligence of Things (AIoT) for Smart Building Maintainability: A Comparative Literature Review and Policy Framework for Singapore and Manila	Gerald P Arada; Sheila Maria Arcuino Conejos

D2-B4 | 3:15 PM – 4:55 PM | Big Data, Health AI & Knowledge Systems

Time	Paper title	Authors
3:15 PM – 3:35 PM	Thematic Analysis of Data Lake Research in Education: A Computational Literature Review	Chayun Fadila; Najwan Firdaus Haris and Shaban Lubanga; Nur Aini Rakhmawati
3:35 PM – 3:55 PM	System Dynamics-Based Conceptual Model: A Case Study of Malaysia's Early COVID-19 Outbreak	Aisyah Ibrahim; Tuty Asmawaty Abdul Kadir; Rod MacDonald; Hamdan Daniyal
3:55 PM – 4:15 PM	An LLM-RAG Architecture for Cross-Referencing Halal Standards and EU Deforestation Regulations	Naël Ahmed and Ilian Balit; Rarasmaya Indraswari; Nur Aini Rakhmawati
4:15 PM – 4:35 PM	Quantized CNN Inference for Heart Murmur Screening on Commodity Edge Hardware	Mohd Rayyan Khan, Mohammad Zaid, Kandarp Gupta and Mohd Wajid

DAY 2 | Thursday, 19 November — Detailed Paper Program

15-minute presentation + 5-minute Q&A per paper | All times Bahrain (UTC+3)

D2-C4 | 3:15 PM – 4:55 PM | Digital Education, HCI & Computing Systems

Time	Paper title	Authors
3:15 PM – 3:35 PM	Real-Time Screen Sharing With Low-Bitrate Text-Preserving Compression Using CNN-Based ROI Detection and SVT-AV1 Encoding	Ricardo B. Cruz, Angiolo Ongkinglok, Kerby C. Chiu, Calee P. Mangunay and Donabel Abuan; Hubert F. Abuan
3:35 PM – 3:55 PM	AI-Based Formative Assessment of Programming Tasks in Moodle: Architecture, Feedback Quality and Teacher Acceptance	Alessandro Pagano; Paola Plantamura; Veronica Rossano; Sara Maria Cosima Tondo
3:55 PM – 4:15 PM	Efficient FPGA-Based MUSIC Accelerator for DOA Estimation of Multiple Sound Sources	Shashwat Anand Pandey and Mohd Wajid; Balwinder Singh
4:15 PM – 4:35 PM	Performance Evaluation of Contemporary AI Models Aiding Accessibility of PDF Documents	Kirti Mishra; Prasanna Jaichandrao Shete; Srijan Upadhyay