

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 1 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 15:30- 17:30 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Prof. Dr. Omar Alhazmi

| # | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                    | Authors                                                                                             |
|---|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1 | 15:30 - 15:50 | 1571326599 | 110          | Who Recites What? Quantifying Reciter Leakage with a Reciter-Disjoint Protocol for Qur'anic Surah Recognition                  | <b><u>Abdullah Almohammadi</u></b>                                                                  |
| 2 | 15:50 - 16:10 | 1571330232 | 153          | Acoustic Speech Phenotyping for REM Sleep Behavior Disorder: A Digital Biomarker of Parkinson's Disease Risk                   | Saeed Bin Tanveer, Saleh Musleh, <b><u>Tanvir Alam</u></b>                                          |
| 3 | 16:10- 16:30  | 1571327005 | 166          | Artificial Intelligence Based Prediction of the Nonlinear Characteristics of Passively Q-Switched Ytterbium-Doped Fiber Lasers | <b><u>Ahmed H. H. Al-Masoodi</u></b> , Omar B. Abdulghafoor                                         |
| 4 | 16:30 - 16:50 | 1571332277 | 164          | Enhancing YOLO11s with a P2 Detection Head and Efficient Multi-Scale Attention for Loose Oil Palm Fruit Detection              | <b><u>Elly Warni</u></b> , Indrabayu, Andani Achmad, Syafruddin Syarif, Rudi Amme, Muhammad Rizal H |
| 5 | 16:50- 17:10  | 1571332477 | 189          | EgySpell: A Hybrid Error-Injection Framework and Parameter-Efficient Benchmark for Egyptian Arabic Spelling Correction         | <b><u>Fatimah Emad Eldin</u></b> , Esam Amin, Atef Raslan                                           |
| 6 | 17:10 - 17:30 | 1571332772 | 147          | Empathy-Aligned: Direct Preference Optimization for Empathetic Response Generation in Arabic                                   | <b><u>Afnan Alkhathlan</u></b> , Abdulrahman A. Mirza                                               |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 1 | In-person

**Venue:** Workshop C Hall, First Floor

**Time:** 15:30- 17:30 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Prof. Dr. Saad Alharbi

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                       | Authors                                                                                                        |
|----|---------------|------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 7  | 15:30 - 15:50 | 1571332899 | 149          | Performance, Generalization, and Explainability of Deep Learning Models for Fundus-Based Glaucoma Detection                       | <b>Sofia Saidah</b> , Achmad Rizal, Inung Wijayanto, R. Maula Rifada                                           |
| 8  | 15:50 - 16:10 | 1571332992 | 131          | Explainable AI-Based Crowd Density Classification Framework Integrating a Transportation Decision Model for Hajj Crowd Management | <b>Afnan A. Shah</b>                                                                                           |
| 9  | 16:10- 16:30  | 1571334686 | 190          | Aerial Person Re-Identification Benchmark for Uniform-Attire Crowds                                                               | <b>Yousaf Albaluchi</b> , Raghavendra Ramachandra, Naser Damer, Kiran Raja                                     |
| 10 | 16:30 - 16:50 | 1571322589 | 101          | Benchmarking Deep Learning Models for Bilingual Malaysian Political Fake News Detection on a Large-Scale Multi-Source Corpus      | <b>Nirase Fathima Abubacker</b> , Raheem Mafas, Ghaarib Khurshid, SY.Yuliani Yakub, Kemas Rahmat Saleh Wiharja |
| 11 | 16:50- 17:10  | 1571333068 | 133          | A Preclinical Offline-First Bilingual Clinical Decision Support Prototype for Look-Alike/Sound-Alike Medication Errors            | <b>Rashad Kamsheh</b> , Shrouq Eraqy                                                                           |
| 12 | 17:10 - 17:30 | 1571333120 | 134          | Navigating the Shift to AI-Driven Functional UI Testing: A Systematic Review                                                      | <b>Salma Mouayad</b> , Khalid Moussaid, Zouhair Chiba                                                          |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 1 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 15:30- 17:30 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Prof. Dr. Talal Noor

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                                | Authors                                                                                          |
|----|---------------|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 13 | 15:30 - 15:50 | 1571309503 | 129          | Deep Learning for Arabic Sentiment Analysis in Low-Resource Settings: Recent Methods and Performance Analysis                                              | <b><u>Mohammad Mezher</u></b>                                                                    |
| 14 | 15:50 - 16:10 | 1571317482 | 124          | Fine-Tuning Ternary BitNet b1.58 for Medical Question Answering: A Comparison with LoRA-Adapted Llama 3.2                                                  | <b>Abdellah HMADE</b> , Ibrahim Guelzim, Badr Hirschoua, Hammadi Nait-Charif                     |
| 15 | 16:10- 16:30  | 1571327081 | 165          | Validating GenAI Event Extraction from Police Crash Narratives Using Trained Double Coding and Expert Adjudication: A Pilot Protocol-Validation Case Study | <b><u>MD Didarul Alam</u></b> , Luqman Ali, Abdul Rahman Masoud , Ammar Aljasmi, Hammad Aljassmi |
| 16 | 16:30 - 16:50 | 1571327647 | 112          | Transparent Credit-Risk Models Without a Cost Penalty: A Decision-Cost Evaluation of Interpretable Scoring for Regulated Lending                           | <b><u>Muteb Ahmed Almihibash</u></b>                                                             |
| 17 | 16:50- 17:10  | 1571331147 | 154          | Tri-Modal Clinical Evidence Retrieval: A Methodological Framework and Review                                                                               | <b><u>Sk Ahammad Fahad</u></b> , Akshita Abrol, Aik Beng Ng, Simon See, Zhengkui Wang            |
| 18 | 17:10 - 17:30 | 1571332165 | 257          | Fine-Tuning Large Language Models for Malay-to-English Translation: A Comparative Study                                                                    | <b><u>Amil Hakim Anuar</u></b> , Sabrina Tiun, Anis Nadiah Che Abdul Rahman, Fadhilah Rosdi      |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 1 | Virtual

**Venue:** Workshop A Hall, Ground Floor

**Time:** 15:30- 17:30 | Saudi Arabia (UTC+3)

**Track:** Intelligent Systems, Embedded AI, and Cyber Technologies

**Session chair:** Assoc.Prof.Dr .Tawfeeq Alsanoosy

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                       | Authors                                                                                                                      |
|----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 19 | 15:30 - 15:50 | 1571320289 | 119          | Risk-Aware AI-Governed Penetration Testing for Cyber Resilience in Regulated Environments                         | Mourad Benmalek, Abdessamed Seddiki, Waleed Almatrafi, Abdulrahman Alobaysi, <b><u>Yousf Aldhafiri</u></b> , Yousf Althubiti |
| 20 | 15:50 - 16:10 | 1571320449 | 118          | Action-Criticality and Review-Budget-Aware Calibrated Triage for Prompt-Injection Handling in LLM-Agent Pipelines | <b><u>Hazm Talab</u></b>                                                                                                     |
| 21 | 16:10- 16:30  | 1571328970 | 201          | RBF-Based Adaptive Sliding Control for Exoskeleton Torque Compensation with Unknown Time-Varying Parameters       | <b><u>Abdulbasid Ismail Isa</u></b> , Mukhtar Fatihu Hamza, Aminu Zimi, Abba Uba Said                                        |
| 22 | 16:30 - 16:50 | 1571331398 | 256          | What Makes PhiUSIL Easy? Subset Construction and the Limits of a Widely Used Phishing URL Benchmark               | <b><u>Khalid Alalawi</u></b>                                                                                                 |
| 23 | 16:50- 17:10  | 1571337187 | 246          | A Hybrid Cybersecurity Governance Framework for AI-Enabled Public Transit Systems                                 | <b><u>Gahangir Hossain</u></b> , Bryan Anderson                                                                              |
| 24 | 17:10 - 17:30 | 1571343684 | 263          | CADVA: A Confidence-Aware Multi-Agent Framework for Explainable Software Vulnerability Detection                  | <b><u>Abdulmajeed Aljuhani</u></b>                                                                                           |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 2 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 17:45 - 19:05 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Dr. Samer Bamansoor

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                         | Authors                                                                                                  |
|----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 25 | 17:45 - 18:05 | 1571334643 | 177          | PQ-HMedAgg: A Post-Quantum Secure Hierarchical Federated Learning Framework for Heterogeneous Cancer Diagnosis                      | Sultan Khan Patan, Yaseen Shaik, Ajay Bhardwaj, <b><u>Mohammad Abdussami</u></b> , Ruhul Amin, SK Ismail |
| 26 | 18:05- 18:25  | 1571333045 | 132          | An NDMO-Inspired, SAMA-Aware, Human-Gated Classifier for Saudi Banking Metadata: Auditable, Impact-Driven, Sovereign-by-Design      | <b><u>Rashad Kamsheh</u></b>                                                                             |
| 27 | 18:25- 18:45  | 1571335383 | 259          | An Adoption-Aware Cloud Computing Reference Architecture for SME E-Commerce in Saudi Arabia                                         | <b><u>Ibrahim Alfadli</u></b>                                                                            |
| 28 | 18:45- 19:05  | 1571336031 | 261          | Adaptive AI Traffic Optimisation: Evaluating Deep Reinforcement Learning against Fixed-Time Controllers in Complex Urban Topologies | Mohamed Al Korbani, <b><u>AbdulRahman Alsewari</u></b>                                                   |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 2 | In-person

**Venue:** Workshop C Hall, First Floor

**Time:** 17:45 - 19:05 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Prof. Dr. Salwani Abdullah

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                         | Authors                                                                                                    |
|----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 29 | 17:45 - 18:05 | 1571344056 | 194          | A Human-Validated Saudi Arabic Intent Benchmark Dataset with Leakage-Aware Splits and Evaluation Across Dialects and Model Families | <b>Mohammed A. Alawfi</b> , Yasir M. Althubyani, Abdulrahman M. Almutairi, Ibrahim F. Moawad               |
| 30 | 18:05- 18:25  | 1571344407 | 265          | Language-Guided Knowledge Distillation for Compressed Video Swin Transformer Model for Real-Time Driver Distraction Detection       | <b>Lina Noaman Alkhatib</b> , Ghulam Muhammad                                                              |
| 31 | 18:25- 18:45  | 1571344477 | 197          | A Systematic Literature Review of Counterfactual Fairness Testing                                                                   | Abba Hali, <b>Shuib Basri</b> , Abdullateef O. Balogun, Hussaini Mamman, Surajo Yusuf, Aliyu Muhammad Zabi |
| 32 | 18:45- 19:05  | 1571344930 | 231          | Calibration-Efficient Taylor-Based Attention-Head Pruning in BERT                                                                   | <b>Adil Yousif</b>                                                                                         |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 2 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 17:45 - 19:05 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Assoc.Prof.Dr. Maher Alharby

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                             | Authors                                                                                         |
|----|---------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 33 | 17:45 - 18:05 | 1571332476 | 253          | A Cross Algorithm Evaluation of Diversification Mechanisms for Combinatorial Test Suite Generation                                                      | <b><u>Ali Abdullah Hassan</u></b> , Salwani Abdullah, Kamal Z. Zamli, Rozilawati Razali         |
| 34 | 18:05- 18:25  | 1571334542 | 250          | Topology-Dependent Fragility in Cross-Model Transfer of Multi-Agent LLM Configurations                                                                  | <b><u>Mawal A. Mohammed</u></b> , Sumaia Mohammed AL-Ghuribi, Shahrul Azman Mohd Noah           |
| 35 | 18:25- 18:45  | 1571334555 | 160          | A Two-Phase Workflow for Evaluating Bibliographic Reliability and Semantic Alignment of LLM-Generated Citations                                         | <b><u>Faria Islam Leha</u></b> , Ravie Chandren Muniyandi, Opeyemi Lateef Usman                 |
| 36 | 18:45- 19:05  | 1571334768 | 176          | Offline Reinforcement Learning Does Not Outperform Clinician Insulin Dosing in a General ICU Cohort: A Reproducible Benchmark and Off-Policy Evaluation | Baseem Al-Athwari, <b><u>Tirop Meshack</u></b> , Ajax Don Christ Ndikuriyo, Nshimirimana Albert |

# Detailed Technical Session Schedule

## 3 November 2026 | Parallel Session 2 | Virtual

**Venue:** Workshop A Hall, Ground Floor

**Time:** 17:45-19:05 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Dr.Modhawi Salah Alotaibi

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                              | Authors                                                                                                                    |
|----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 37 | 17:45 - 18:05 | 1571344362 | 264          | Faithfulness Is Not Enough: Dual-Mode Advisory Evaluation for Safety-Critical RAG                                        | <b><u>Alfi Diyana Ngu Binti Mohd Faris Ngu</u></b> , Joanne Wan Chuin Jong, Zhi An Ling, Miko May Lee Chang                |
| 38 | 18:05- 18:25  | 1571344385 | 237          | Medani Emotional Speech Dataset: A Sudanese Speaker Resource for Speech Emotion Recognition Using Modern Standard Arabic | Abobakar Ahmed, Maaz Noureldeen, <b><u>Inshirah Idris</u></b> , Taqwa A. Alhaj                                             |
| 39 | 18:25- 18:45  | 1571344394 | 196          | Cross-Layer Provenance for Agentic RAG: Preserving Identity Continuity Across Ingestion, Execution, and Feedback         | <b><u>Zhi An Ling</u></b> , Joanne Wan Chuin Jong, Alfi Diyana Ngu Binti Mohd Faris Ngu, Miko May Lee Chang                |
| 40 | 18:45- 19:05  | 1571344490 | 234          | An AI-Assisted Quantum-Inspired Encryption Framework for Color Aerial Images                                             | Hairulnizam Mahdin, <b><u>Abdul Rehman Altaf</u></b> , Awais Mahmood, Izzatdin Abdul Aziz, Muhammad Hassan, Abdullah Altaf |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 3 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 10:30 - 13:10 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI

**Session chair:** Dr. Samah Aloufi

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                     | Authors                                                                                                                                  |
|----|---------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 41 | 10:30 - 10:50 | 1571319308 | 123          | AI-Driven Chromatic ECG Representation for Automated Arrhythmia Classification                                                  | <b>Ziyad Almajali</b> , Ali Alqatawneh                                                                                                   |
| 42 | 10:50 -11:10  | 1571322037 | 254          | NetFlowBench-Mini: A Reproducible Stealth-Aware Mini-Benchmark for Evaluating Lightweight AI Models in Network Threat Detection | <b>Weam M. Binjuma</b>                                                                                                                   |
| 43 | 11:10 -11:30  | 1571324549 | 102          | Optimized YOLOv8 Framework for Automated Detection of Pomacentridae Species in Coral Reefs                                      | Mohammad Shamsuddin, Wan <b>Nural Wan Yussof</b> , Muhammad Hitam, Ezmahamrul Awalludin, Muhammad Afiq-Firdaus Aminudin, Zainudin Bachok |
| 44 | 11:30- 11:50  | 1571325558 | 106          | A Real-Time Human Activity Recognition and Indoor Positioning Framework for Elderly                                             | <b>Abrar S. Alhazmi</b> , Tawfik Ismail                                                                                                  |
| 45 | 11:50- 12:10  | 1571326476 | 109          | Benchmarking Arabic Text Representation Methods for Automated Depression Detection                                              | <b>Alwan Atta</b> , Dina El Sayad, Doaa Ezzat, Safaa Amin, Mahmoud El Gamal                                                              |
| 46 | 12:10- 12:30  | 1571333059 | 162          | TierGuard: A Deterministic Triage-and-Abstention Baseline for Article 5, Annex III and Article 50 of the EU AI Act              | <b>Rashad Kamsheh</b>                                                                                                                    |
| 47 | 12:30- 12:50  | 1571330868 | 152          | SENTINEL-OWIDS: A Self-Evolving Open-World Intrusion Detection Framework                                                        | Prachee Dewangan, Ruhul Amin, <b>SK Ismail</b>                                                                                           |
| 48 | 12:50- 13:10  | 1571331347 | 156          | An XAI-Driven Continuous ESG Auditing Framework for Industrial Water Liability Management                                       | <b>Inaliah Mohd Ali</b> , Noorlin Mohd Ali                                                                                               |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 3 | In-person

**Venue:** Workshop C Hall, First Floor

**Time:** 10:30 - 13:10 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI

**Session chair:** Assoc.Prof.Dr. Ayman Noor

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                              | Authors                                                                                                                                                              |
|----|---------------|------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 | 10:30 - 10:50 | 1571331944 | 159          | Toward Intelligent Autonomous Search and Rescue: A Deep Learning-Enabled Rotary UAV Framework                                                            | <b>Shujaa Alotaibi</b> , Sultan Ghazi Alanazi, Faisal Hussian Al-Dosari, Nasser Ibrahim Al-Dosari, Saud Alhajaj Aldossari                                            |
| 50 | 10:50 - 11:10 | 1571332380 | 145          | When the Model Will Not Stand Still: A Regulatory Gap Analysis and a Continuous-Conformity Approach for Machine-Learning-Enabled Medical Device Software | <b>Rashad Kamsheh</b>                                                                                                                                                |
| 51 | 11:10 - 11:30 | 1571336292 | 186          | Artificial Intelligence for Smart Campus Transformation in Higher Education: Applications, Readiness and Responsible Governance                          | <b>Mohd Rashid Abu Bakar</b> , Jasni Mohamad Zain, Mohamed Ameen                                                                                                     |
| 52 | 11:30 - 11:50 | 1571339034 | 138          | Two-Stage Machine Learning for Fault Detection and Diagnosis in Off-Grid PV Systems                                                                      | Namthip Wannakajeeboon, <b>Samer Bamansoor</b> , Essa Q. Shahra, Florimond Gueniat, Sandeep Dhundhara, Cham Athwal                                                   |
| 53 | 11:50 - 12:10 | 1571341890 | 141          | AI-Driven Industrial IoT for Precision Agriculture: A Random Forest Field Validation Toward Adaptive Irrigation Control                                  | Heru Nurwarsito, Didik Suprayogo, <b>Nur Hazbiy Shaffan</b> , M. Tamim Habibi                                                                                        |
| 54 | 12:10 - 12:30 | 1571344705 | 199          | Generative Artificial Intelligence and the Copyright Legal System in Malaysia and Saudi Arabia: A Comparative Study and the Way Forward                  | <b>Muhamad Helmi Khair</b> , Rohazar Wati Zualcobley, Siti Hafsyah Idris, Nur Amirah Arifah Hanawi, Jasni Mohamad Zain, Norsyazrah Zulkifli                          |
| 55 | 12:30 - 12:50 | 1571344845 | 181          | Hybrid Methods for Implicit Aspect Identification: A Focused Task-Aware Review                                                                           | Mohammad Kabir, Nor Samsiah Sani, Md Akizur Rahman, Zulaiha Ali Othman, <b>Md. Rokonzaman</b>                                                                        |
| 56 | 12:50 - 13:10 | 1571351815 | 215          | MALAR-AI: Development of a Web-Based AI-Assisted Platform for Malaria Blood-Smear Screening                                                              | Mus'ab Manan, Mus'ab Sahrim, Ahmad Abid Abas, <b>Nurul Azmawati Mohamed</b> , Hakimi Yunus, Mohd Ammar Ihsan Ahmad Zamzuri, Liyana Azmi, Muhammad Aizat Hakim Hashim |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 3 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 10:30- 13:10 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI

**Session chair:** Prof. Dr. Mohamad Alsareem

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                | Authors                                                                                                               |
|----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 57 | 10:30 - 10:50 | 1571321772 | 127          | Architecture-Dependent External-Factor Integration for SME Sales Forecasting with LSTM and Temporal Fusion Transformer                     | Farhan Ahmad Nurzi, <b><u>Zalinda Othman</u></b>                                                                      |
| 58 | 10:50 -11:10  | 1571322172 | 125          | Comprehensive Benchmarking of Deep Learning Architectures for Lung Cancer Histopathology                                                   | <b><u>Hadi Hasan</u></b> , Safaa Salman, Lama Sleem, Ralph Mouawad, Ali Chehab                                        |
| 59 | 11:10 -11:30  | 1571322931 | 103          | Improved Quantum Machine Learning Model for Bone Fracture Detection                                                                        | <b><u>Syed Abdul Rafay</u></b> , Syed Abdullah Basit, Tanvir Alam                                                     |
| 60 | 11:30- 11:50  | 1571323477 | 104          | A Conceptual Federated Learning Framework for Privacy-Preserving and Communication-Efficient Chest X-ray Classification under Non-IID Data | <b><u>Muhammad Yaqoob</u></b> , Juliana Jaafar                                                                        |
| 61 | 11:50- 12:10  | 1571326261 | 107          | Texture-Aware Self-Supervised Mechanisms for Discriminative Representation Learning on Steel Surface Textures                              | <b><u>Zhang Yue</u></b> , NZ Jhanjhi, Arafat Al-Dhaqm, Humaira Ashraf                                                 |
| 62 | 12:10- 12:30  | 1571326635 | 114          | Operational Generative AI Architectures in Tourism: A PRISMA-Guided Systematic Literature Review                                           | <b><u>Mohd Yasim A.H.</u></b> , Mohd F., Man Hong L., Abdullah F.A., Hasbolah H.                                      |
| 63 | 12:30- 12:50  | 1571331216 | 155          | Leveraging Large Language Models for Automated Experimental Design: Evaluating LLMs in a Lang Chain Framework                              | <b><u>Sikandar Ali</u></b> , Roberto Ciccocioppo, Massimo Ubaldi, Salem Alotaibi, Fabio Casarola, Matteo Piersantelli |
| 64 | 12:50- 13:10  | 1571332112 | 143          | LLM-SKAF: An AI-Enabled Framework for Strategic Knowledge Assessment and Learner Profiling in Problem-Based Programming                    | <b><u>Siti Sarah Khalib</u></b> , Siti Fadzilah Mat Noor, Tengku Siti Meriam Tengku Wook, Kauthar Mohd Daud           |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 4 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 16:00 - 18:40 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI & Intelligent Systems, Embedded AI, and Cyber Technologies

**Session chair:** Assoc.Prof.Dr. Hamza Ghandorh

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                    | Authors                                                                                                                                            |
|----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 65 | 16:00 - 16:20 | 1571319666 | 122          | A Comparative Study of Transformer Based Models for Sentiment Classification of Food Delivery Reviews: A Case Study of Talabat | <b><u>Mohammad Tubisha</u></b> , Ahed Abugabah                                                                                                     |
| 66 | 16:20- 16:40  | 1571329162 | 275          | Generative Artificial Intelligence as a Catalyst for Innovation in Visual Arts: Framework and Empirical Evidence               | <b><u>Manal Alhomaidd</u></b>                                                                                                                      |
| 67 | 16:40-17:00   | 1571326195 | 108          | Privacy Scorecard Chrome Extension for Real-Time Web Privacy and Security Assessment Using Machine Learning Techniques         | <b><u>Shaikha Jamal Almansouri</u></b> , Sabha Mubarak Bujaloof, Alshaymaa Saleh Mathala, Shafii Muhammad Abdulhamid, Abdullah Hussein Al Ghushami |
| 68 | 17:00 - 17:20 | 1571332295 | 206          | A Hybrid Neuro-Symbolic Architecture for Deterministic Banking Compliance Verification Using LLMs and SMT Solvers              | Vedika Agrawal, <b><u>Ruhul Amin</u></b>                                                                                                           |
| 69 | 17:20 -17:40  | 1571332983 | 130          | Codebook-Boundary Attacks on Masked VQ-VAE Semantic Communication Systems                                                      | Joyal K Biju, <b><u>Mohammed Zafar Ali Khan</u></b>                                                                                                |
| 70 | 17:40- 18:00  | 1571334614 | 212          | Post-Quantum Secure Personalized Federated Learning with Adaptive Confidence Aggregation for Heterogeneous Multimodal Data     | <b><u>Sultan Khan Patan</u></b> , Azhar Arqham Shaik, Vishnu Mattakoyya, Mohammad Abdussami, Ajay Bhardwaj, Ruhul Amin, SK Ismail                  |
| 71 | 18:00- 18:20  | 1571338103 | 244          | Accelerating Embedded LLM Inference on Autonomous Mobile Robots on a Multi-FPGA Cluster                                        | Ahmed Marzouk, <b><u>Omar Hammami</u></b>                                                                                                          |
| 72 | 18:20- 18:40  | 1571341681 | 242          | MCU-Observable I2C Communication Macro-Behavior for IoT Sensor Fault Detection                                                 | <b><u>Atef Allam</u></b>                                                                                                                           |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 4 | In-person

**Venue:** Workshop C Hall, First Floor

**Time:** 16:00 - 18:40 | Saudi Arabia (UTC+3)

**Track:** Intelligent Systems, Embedded AI, and Cyber Technologies & Emerging ICT, Data, and Immersive Technologies

**Session chair:** Assoc. Prof. Dr. Suhaila Zainudin

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                        | Authors                                                                                                    |
|----|---------------|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 73 | 16:00 - 16:20 | 1571341728 | 205          | Toward Embedded Edge AI for Smart Irrigation 5.0: An LSTM-Fuzzy Framework over a Field-Validated IIoT Platform                     | <b><u>Heru Nurwarsito</u></b> , Rakhmadhany Primananda, Nur Hazbiy Shaffan, Cahyo Prayogo, Hairulnizam Mah |
| 74 | 16:20- 16:40  | 1571342877 | 240          | LSTM-Based Sequential Behavioral Analysis for Detecting Evasive Malware in Sandbox Environments                                    | <b><u>Arwa Alhakami</u></b> , Abdulmonem Alshahrani                                                        |
| 75 | 16:40-17:00   | 1571344919 | 268          | An Explainable Intrusion Detection Framework Using Temporal NetFlow Features                                                       | <b><u>Wael Said</u></b> , Yasser Alginahi, Omar Sabri                                                      |
| 76 | 17:00 - 17:20 | 1571331513 | 274          | A Metamodel-Driven, Adaptive, and Explainable Artificial Intelligence Framework for Mobile Threat Detection and Forensic Readiness | <b><u>Taghreed Alqaisi</u></b>                                                                             |
| 77 | 17:20 -17:40  | 1571332662 | 258          | Context-Aware Fuzzy Reward Shaping for PPO-Based Autonomous Mobile Robot Navigation                                                | <b><u>Mohd Zaid</u></b> , Azhar Mohd Ibrahim, Amir Shafie, Samah Aloufi                                    |
| 78 | 17:40- 18:00  | 1571319770 | 169          | AI-Assisted Program Slicing for Dead Code Detection and Elimination                                                                | <b><u>Mohammad Abdallah</u></b> , Mousa Salah, Khalid Jaber, Daniel Staegemann, Anas Al-Rahamneh           |
| 79 | 18:00- 18:20  | 1571332860 | 148          | Pragmatic De-Labeling: A Data-Driven Agenda for Measuring Agile Adoption                                                           | <b><u>Rashad Kamsheh</u></b>                                                                               |
| 80 | 18:20- 18:40  | 1571332991 | 251          | OphthaMS-LLM: A Domain-Adapted Language Model for Neuro-Ophthalmic Manifestations of Multiple Sclerosis                            | <b><u>Muhammad Aqib</u></b> Anwar, Tanvir Alam                                                             |

# Detailed Technical Session Schedule

## 4 November 2026 | Parallel Session 4 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 16:00 - 18:40 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI

**Session chair:** Assoc. Prof. Dr. Ibrahim Alfadli

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                     | Authors                                                                                                                          |
|----|---------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 81 | 16:00 - 16:20 | 1571334632 | 135          | Toward Intelligent Cardiovascular Digital Twins: A Multimodal AI Framework for Continuous Monitoring and Precision Cardiac Care | <b><u>Iram Rafiq</u></b> , Mohammad Ahsan Chishti, Asif I. Baba                                                                  |
| 82 | 16:20- 16:40  | 1571335303 | 175          | Hybrid Knowledge Graph and Dense Vector Retrieval for Multi-Hop Question Answering                                              | <b><u>Vigneshwarr Venkatesan</u></b>                                                                                             |
| 83 | 16:40-17:00   | 1571340716 | 139          | Intelligent Photovoltaic Defect Classification: A Comparative Study of Transfer Learning CNN Architectures                      | <b><u>Naveed Anwar</u></b> , Aziza I. Hussein, Thangavel Bhuvaneswari, Ervina Efan Mhd Noor                                      |
| 84 | 17:00 - 17:20 | 1571341792 | 140          | Spatial-Temporal Hybrid Architectures for Resilient Deepfake Detection                                                          | <b><u>Afnan Mohammed Ali Abdullah</u></b> , Mohd Nor Akmal Khalid                                                                |
| 85 | 17:20 -17:40  | 1571344252 | 182          | Fine-Tuning Small Encoders versus Frontier-Scale LLMs for ICD Coding of Code-Switched Malay-English Cardiovascular Records      | <b><u>Muhammad Danish Aqil</u></b> , <b><u>Ezzatul Akmal</u></b> , Nor Nadiah Yusof, Sharifalillah Binti Nordin, Azlinah Mohamed |
| 86 | 17:40- 18:00  | 1571344386 | 221          | A Survey of Intelligent Assistive Systems for Visually Impaired Individuals and a Future Social-Aware Architecture              | <b><u>Safaa Alahmadi</u></b> , Abdullah Alsaedi                                                                                  |
| 87 | 18:00- 18:20  | 1571344763 | 200          | Recommendation System for Personalised Skincare Using Mamdani Fuzzy Inference (RSMFI)                                           | <b><u>Noorhuzaimi Noor</u></b> , Noorlin Mohd Ali, Suryanti Awang, Nik Akif Danis Sahazerim, Junaida Sulaiman, Abhijit Bhowmik   |
| 88 | 18:20- 18:40  | 1571344872 | 180          | MoodRhythm: AI Music Generator Based on Real-Time Emotion                                                                       | <b><u>Suzannah Pancer</u></b> , Zarina Che Embi, Afzan Adam                                                                      |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 5 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 09:00 - 11:00 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Dr. Rehab Albeladi

| #  | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                        | Authors                                                                                                                                                                                                     |
|----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 89 | 09:00 - 09:20 | 1571350934 | 224          | Enhanced Cuckoo Search with Adaptive Perturbation for Faster Convergence                                           | <b><u>Mohammed Alasli</u></b> , Wael G. Alheadary                                                                                                                                                           |
| 90 | 09:20 - 09:40 | 1571327823 | 113          | Measuring What Accuracy Misses: Cross-Lingual Consistency of LLMs on the Saudi PDPL and the GDPR                   | <b><u>Noura Suliman Alrajeh</u></b> ; Miada Ahmed Almasre                                                                                                                                                   |
| 91 | 09:40-10:00   | 1571334597 | 178          | A Context-Aware Agentic RAG Formalism for Ijarah Financing                                                         | Muneeb Ul Haque, Atiq Ul Haq, <b><u>Hafiz Mahfooz Ul Haque</u></b>                                                                                                                                          |
| 92 | 10:00- 10:20  | 1571335192 | 136          | Adaptive Pruning Mechanisms in ANFIS for Software Defect Prediction Based on Rule Collaborative Optimization       | <b><u>Abdullah Nasser</u></b> , Antar S. H. Abdul-Qawy, Rajarshi Roy Chowdhury, Waheed Ali H. M. Ghanem, Sanaa Ghaleb, Nayef Abdulwahab Mohammed Alduais, Abdul-Malik H Y Saad, Debashish Roy, Yahya Nasser |
| 93 | 10:20-10:40   | 1571344513 | 233          | Explainable machine learning models for evaluating truck drivers' involvement in injury Accidents in Kano, Nigeria | <b><u>Ibrahim Khalil Umar</u></b>                                                                                                                                                                           |
| 94 | 10:40- 11:00  | 1571345118 | 227          | How Necessary Is the Key Projection? A Small-Scale Cross-Lingual Ablation Study                                    | Mohammed Nasir Ali Khan, <b><u>Mohammed Zafar Ali Khan</u></b>                                                                                                                                              |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 5 | In-person

**Venue:** Workshop C Hall, First Floor

**Time:** 09:00 - 11:00 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Assoc. Prof. Dr. Zalinda Othman

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                          | Authors                                                                                                      |
|-----|---------------|------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 95  | 09:00 - 09:20 | 1571351224 | 271          | Robustness and Reliability of Large Language Models under Arabic Linguistic Variation                                                                | <b><u>Reem Altamimi</u></b>                                                                                  |
| 96  | 09:20 - 09:40 | 1571351360 | 270          | Silent Speech Recognition in Arabic Using AV HuBERT and Triplet-Loss Embeddings                                                                      | <b><u>Mohamed Gamar</u></b> , Oubai Altaki, Nouredin Kanjo, Baraa Khaled, Sanan Abdul Muneem, Ibrahim Moawad |
| 97  | 09:40-10:00   | 1571328297 | 150          | Arabic Medical Question Severity Classification: A Comparative Study Using CNN, AraBERT, and GPT-4o-mini                                             | <b><u>Enas Abdulrahman Alrehaili</u></b> , Areej Alhothali                                                   |
| 98  | 10:00- 10:20  | 1571331841 | 158          | Using Artificial Intelligence, Internet of Things, and Digital Twin Base Energy Management in Buildings: A Saudi Arabia Focused Literature Review    | <b><u>Miassar Bakri</u></b>                                                                                  |
| 99  | 10:20-10:40   | 1571335606 | 277          | Security Vulnerabilities in AI-Generated Code: A Systematic Literature Review and Vulnerability Patterns Analysis                                    | <b><u>Bader Hammad Alkhatabi</u></b> ; Abdullah Alsaedi                                                      |
| 100 | 10:40- 11:00  | 1571326830 | 276          | Scrolling in Algorithmically Curated Feeds: ShortForm Video Use, Compulsive Engagement, and Perceived Cognitive Disruption Among University Students | <b><u>Mohammad Albuhairey</u></b>                                                                            |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 5 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 09:00 - 11:00 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Dr. Alaa Alharbi

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                            | Authors                                                                       |
|-----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 101 | 09:00 - 09:20 | 1571338689 | 137          | Reliable Financial Named Entity Recognition under Domain Shift: Confidence Estimation and Selective Prediction                                         | <b>Zihao Zheng</b> , Baichuan Li, Junyi Yao, Jiayu Long                       |
| 102 | 09:20 - 09:40 | 1571335419 | 174          | Re-Benchmarking Arabic Manuscript OCR with a Modern Vision-Language Model and Evaluating Diacritization Restoration on an Independent Expert Benchmark | <b>Bashaer Abdullah Alsaidalani</b>                                           |
| 103 | 09:40-10:00   | 1571335607 | 260          | Learning to Detect Cryptographic Defects in Ethereum Smart Contracts from Bytecode                                                                     | <b>Mawal A.Mohammed</b> , Sumaia Mohammed AL-Ghuribi, Shahrul Azman Mohd Noah |
| 104 | 10:00- 10:20  | 1571337205 | 192          | Benchmarking Claude Fable 5 Against Opus, Sonnet, and Haiku on Difficulty-Stratified Codeforces Problems                                               | <b>Bedirhan Köksoy</b> , Ali Paşaoğlu, Sara Pournaji Iran                     |
| 105 | 10:20-10:40   | 1571337375 | 187          | Comparative Evaluation of Large Language Models on Tabular Weather Classification Tasks of Varying Difficulty                                          | <b>Bedirhan Köksoy</b> , Ali Paşaoğlu, Sara Pournaji Iran                     |
| 106 | 10:40- 11:00  | 1571339954 | 188          | Arabic Named Entity Recognition: A Weighted Cross-Entropy Approach                                                                                     | Manar Alsehaimi, <b>Nada Alghazzi</b> , Norah Aloufi, Wael M.S. Yafooz        |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 6 | In-person

**Venue:** Workshop B Hall, First Floor

**Time:** 11:15 - 12:55 | Saudi Arabia (UTC+3)

**Track:** Emerging ICT, Data, and Immersive

**Session chair:** Assoc.Prof.Dr. Maher Alharby

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                                                                     | Authors                                                                                                        |
|-----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 107 | 11:15 - 11:35 | 1571344647 | 198          | Effectiveness of Augmented Reality Interactive Care (ARiCare) Application in Enhancing Body Awareness Performance and Engagement for Children with Autism through Guided Inquiry-Based Learning | <b><u>Norsafinar Rahim</u></b> , <b><u>Aliyatul Nisha Muhazli</u></b>                                          |
| 108 | 11:35 - 11:55 | 1571314383 | 128          | Comparative Analysis of Regression Models vs. Long Short-Term Memory for Predicting T80 Lifetime in Dye-Sensitized Solar Cells                                                                  | <b><u>Mohamed Aboshady</u></b> , Hanan Haj Ahmed, Sameh Abdullatif                                             |
| 109 | 11:55-12:15   | 1571344171 | 272          | Towards Cognitively Accessible Mobile Learning Interfaces for Children with Dyslexia: Theory Grounded Design Considerations                                                                     | <b><u>Siti Faizah Miserom</u></b> , Tengku Siti Meriam Tengku Wook, Siti Fadzilah Mat Noor, Saifuddin Mohtaram |
| 110 | 12:15 - 12:35 | 1571319615 | 223          | AI Adoption in Omani Hydroponics: A TOE-Based Thematic Analysis                                                                                                                                 | Duaa Al Ghafri, <b><u>Abdulaziz Aborujilah</u></b> , Samir Hammami                                             |
| 111 | 12:35 - 12:55 | 1571343789 | 239          | A Forecasting Model for Private Vehicle Ownership in Malaysia Using the PCA-Logistic Model Approach                                                                                             | Mohd Azwari Bin A Aziz, <b><u>Suhaila Zainudin</u></b> , Nazatul Aini Abd Majid, Nur Izyan Yasmin Saat         |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 6 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 11:15 - 12:55 | Saudi Arabia (UTC+3)

**Track:** Smart Cities

**Session chair:** Dr. Rehab Albeladi

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                 | Authors                                                                                 |
|-----|---------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 112 | 11:15 - 11:35 | 1571320991 | 116          | Deep Reinforcement Learning for Real-time Multiobject Tracking in Smart Cities                                                              | <b><u>Mukhtar M. E. Mahmoud</u></b> , Abdulgader Z. Almaymuni, Mohammed A. Saleh        |
| 113 | 11:35 - 11:55 | 1571326620 | 214          | ParcelForge: A Configurable Open Framework for Generating and Stress-Testing Delivery Risk Prediction Benchmarks in Smart City E-Commerce   | <b><u>Omair Ameerbakhsh</u></b>                                                         |
| 114 | 11:55-12:15   | 1571331508 | 157          | SnapScope: A Platform for City-Scale Collection and Exploration of Public Snap Map Data                                                     | <b><u>Mohammed Almukaynizi</u></b> , Fahad Alhaqbani, Khaled Almarzoug, Sultan Alanbari |
| 115 | 12:15 - 12:35 | 1571323345 | 167          | AI-Enabled Telecommunications Infrastructure for Smart Cities: A Framework for Intelligent Network Management and Urban Connectivity        | <b><u>Saad Nasharti</u></b>                                                             |
| 116 | 12:35 - 12:55 | 1571344621 | 232          | Benchmarking Machine Learning Algorithms for Software Maintenance Effort Estimation: A Multi-Dataset Evaluation Toward an Explainable Model | <b><u>Mohd Syahmi</u></b> Mustapha, Azlin Ahmad, Nor Nadiah Yusof, Azlin Ramli          |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 6 | Virtual

**Venue:** Workshop A Hall, Ground Floor

**Time:** 12:15 - 13:15 | Saudi Arabia (UTC+3)

**Track:** Emerging ICT, Data, and Immersive

**Session chair:** Prof Dr. Ibrahim Moawad

| #   | Time         | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                | Authors                                                                                                     |
|-----|--------------|------------|--------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 117 | 12:15- 12:35 | 1571341690 | 262          | Towards Smarter Fitness: A System Framework Combining AR and AI for Posture Correction and User-Centered Exercise Guidance | <b>Hadeel Al-Dawsari</b> , Rimas Alanzan, Hajar Alswaidan, Helah Almansour                                  |
| 118 | 12:35- 12:55 | 1571332518 | 146          | SwarmGaussian++: Communication-Efficient Temporal Gaussian Synchronisation for Distributed Aerial Reconstruction           | <b>Yao Yeboah</b> , Zeyad Farisi, Ramon Lara Tondorf, Joseph Teye Ignatius Buerthey, Kwabena Agyapong-Kodua |
| 119 | 12:55-13:15  | 1571341393 | 193          | Novel Saliency Based Image Compression Standard Considering Advertisement Content                                          | Siva Rajesh Chiluveru, <b>Venkata Sumanth Siddareddy</b> , Rabindra Narayan Chakraborty, Shuvendu Rana      |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 6 | Virtual

**Venue:** Workshop C Hall, First Floor

**Time:** 11:15 - 13:15 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI and Applied and Domain-Specific AI

**Session chair:** Prof. Dr. Mohamad Alsareem

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                               | Authors                                                                                                                                                                         |
|-----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 120 | 11:15 - 11:35 | 1571344416 | 235          | An Intelligent Academic Advising System Based on Association Rule Mining for Libyan Secondary School Students                             | <b>Mohammed Ahzaz</b> , Mohammed Shantal, Wael Alzoubi, Almahdi Alshareef                                                                                                       |
| 121 | 11:35 - 11:55 | 1571319979 | 120          | Acceptance and Technical Challenges of Digital Jāwī and 'Arabic Transliteration in Malaysia: A Survey-Based Analysis of 45 Teachers       | <b>Asar Bin Abdul Karim</b> , Aziman Abdullah, M. Mujib Anuar, Awanis Romli, Affendy Oardin                                                                                     |
| 122 | 11:55-12:15   | 1571344359 | 269          | A Comparative Evaluation of BERT and BERT-CRF Architectures for Named Entity Recognition in Malay Health Text                             | <b>Hafsah</b> , Saidah Saad, Lailatul Qadri Zakaria                                                                                                                             |
| 123 | 12:15- 12:35  | 1571344896 | 179          | Graph-Grounded Generative User Interfaces for Learning: Retrieval Structure Determines Interface Expressiveness                           | <b>Fakhrul Azim Bin Ahmed Mardzukie</b>                                                                                                                                         |
| 124 | 12:35-12:55   | 1571345035 | 218          | A Quantum-Enhanced Digital Twin Framework for Intelligent Semi-transparent Agrivoltaic Greenhouses toward Sustainable Food-Energy Systems | Mohammad Nur-E-Alam, <b>Md. Rokonuzzaman</b> , Mohammad Khairul Basher, Narottam Das, Atiqur Rahman, Mohammad Aminul Islam, Syed Mohammed Shamsul Islam, Mohammad Tariqul Islam |
| 125 | 12:55- 13:15  | 1571350249 | 217          | SEHCO: Ontology-Driven Semantic Edge Intelligence for Context-Aware Healthcare Service Orchestration in B5G/6G Networks                   | Halima Benhebirache, Aicha Korichi, Meriem Korichi, Marwa Meissa, Ramla Bensaci                                                                                                 |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 7 | Virtual

**Venue:** Small Hall, Ground Floor

**Time:** 14:00 - 15:20 | Saudi Arabia (UTC+3)

**Track:** Applied and Domain-Specific AI & Intelligent Systems, Embedded AI, and Cyber Technologies

**Session chair:** Dr. Samah Aloufi

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                 | Authors                                                                                                             |
|-----|---------------|------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 126 | 14:00 - 14:20 | 1571342981 | 142          | Explainable Optimized XGBoost-SMOTE Framework for Mortality Prediction in Heart Failure Patients Using Balanced Structured Clinical Records | <b><u>Md Ershadul Haque</u></b> , Faranak Tohidi, Md. Farhad Hossain                                                |
| 127 | 14:20 - 14:40 | 1571320633 | 117          | Beyond Functional Utility: An Integrated UTAUT-TTF Perspective on the Social and Functional Drivers of AI Adoption in Higher Education      | <b><u>Iva Khoiril Mala</u></b> , Dediek Tri Kurniawan, Yesiana Ihda Kusnayain                                       |
| 128 | 14:40-15:00   | 1571332168 | 144          | Continuous STEAM Education Through Programming, Robotics, and Computational Modeling                                                        | <b><u>Gulbanbegim Jamolova</u></b> , Mirsaid Aripov, Jalolova Pokiza Muzapharovna, Kobilova Nilufar Xudoyshukurovna |
| 129 | 15:00- 15:20  | 1571344554 | 220          | RaPhiD: RAG-Based Phishing Email Detection for K-12 Cyber Literacy with Dual-Index Poisoning Robustness Evaluation                          | <b><u>Tayiba Raheem</u></b> , Indira Priyadharshini Sundarrajan, Ajay Gottipati, Gahangir Hossain                   |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 7 | Virtual

**Venue:** Workshop A Hall, Ground Floor

**Time:** 14:00 - 15:20 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI

**Session chair:** Dr. Sakhaa Al-Saadi

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                                                | Authors                                                                                                                                                       |
|-----|---------------|------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 130 | 14:00 - 14:20 | 1571344935 | 230          | Benchmarking Vision-Language Models for Heritage Crack Detection at Al Qattara Oasis, UAE                                                  | Fatima Saeed Alneyadi, <b><u>Kholoud Khatib Khatibi</u></b> , Nayla Al Nuaimi, Abdul Rahman Masoud, Luqman Ali, Fady Alnajjar, Adriaan De Man, Hamad Aljassmi |
| 131 | 14:20 - 14:40 | 1571351736 | 216          | A Data-Driven Solution for SME Development in Saudi Arabia: Analyzing Regional Disparities and Guiding Investment in Line with Vision 2030 | <b><u>Nariis Bin Tayeb</u></b> , Nirase Fathima Abubacker, Baraka Saleh Yaslam Bin Tayeb, Seham Saleh Yaslam Bin Tayeb                                        |
| 132 | 14:40-15:00   | 1571328375 | 151          | An AI-Driven Approach to DDoS Detection and Mitigation in SDN Environments                                                                 | <b><u>Dalila Boughaci</u></b> , Nour El-Houda Bourouhou                                                                                                       |
| 133 | 15:00- 15:20  | 1571342617 | 241          | Brain Tumor Classification with Balanced Class Distribution: A Comparative Study of Hybrid Quantum CNN, CNN, and Vision Transformer        | Haamidhah Akbar Badhusha, Ershadul Haque , Selvarengan Paranthaman , Syed Mohammed Shamsul Islam                                                              |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 7 | Virtual

**Venue:** Workshop B Hall, First Floor

**Time:** 14:00 - 15:20 | Saudi Arabia (UTC+3)

**Track:** Intelligent Systems, Embedded AI, and Cyber Technologies

**Session chair:** Assoc. Prof. Dr. Liyakathunisa Syed Ayub Ansari

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                           | Authors                                                        |
|-----|---------------|------------|--------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 134 | 14:00 - 14:20 | 1571344837 | 267          | AI-Based Prompt Injection Attacks Detection and Large Language Models: A Survey       | <b><u>Amal Aljabri</u></b> , Hamza Ghandorh , Wael M.S. Yafooz |
| 135 | 14:20 - 14:40 | 1571344938 | 229          | Relative Trust-Weighted Federated Learning for Robust IoT Intrusion Detection         | <b><u>Samya Chahid</u></b> , Yassine Maleh, Mohamed Lahby      |
| 136 | 14:40-15:00   | 1571344939 | 228          | A Multi-Source AI Framework for Communication Outage Detection and Forecasting        | <b><u>Faris Alotibi</u></b>                                    |
| 137 | 15:00- 15:20  | 1571343705 | 208          | When GenAI Use Goes Unseen: Shadow AI, Knowledge Hiding, and Governance Risks in SMEs | <b><u>Kishore Bitra</u></b>                                    |

# Detailed Technical Session Schedule

## 5 November 2026 | Parallel Session 7 | Virtual

**Venue:** Workshop C Hall, First Floor

**Time:** 14:00 - 15:20 | Saudi Arabia (UTC+3)

**Track:** Foundations and Frontiers of AI & Intelligent Systems, Embedded AI, and Cyber Technologies

**Session chair:** Prof Dr. Ibrahim Moawad

| #   | Time          | Paper ID   | MCAIT 2026 # | Paper title                                                                                                       | Authors                                                                                                                        |
|-----|---------------|------------|--------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 138 | 14:00 - 14:20 | 1571343337 | 273          | Projected Multimodal Fusion of Text and Image Embeddings for Binary and Fine-Grained Fake News Detection          | <b><u>Omar Bashaddadh</u></b> , Masnizah Mohd, Sabrina Tiun, Nazlia Omar                                                       |
| 139 | 14:20 - 14:40 | 1571344350 | 195          | APGEM: Adaptive Policy-Guided Error Mitigation for Quantum Reinforcement Learning on a Real-World CVRP Case Study | <b>Shabir Ahmad Sofi</b> , Bisma Majid, Mir Mohammad Yousuf                                                                    |
| 140 | 14:40-15:00   | 1571344132 | 238          | Beyond Closed-Set Detection: Unseen-Family Generalization and Few-Shot Recovery on CICIOT2023                     | <b><u>Shahid Manzoor</u></b> , Naif Alrashdi, Ahmed Alghamdi                                                                   |
| 141 | 15:00- 15:20  | 1571344751 | 266          | Grounding Large Language Models for Malay Proverb Interpretation Through Retrieval-Augmented Generation           | <b><u>Fadhilah Rosdi</u></b> , Charity Ojochogwu Egbunu, Sabrina Tiun, Wan Fariza Fauzi, Junaini Kasdan, Abdul Hadi Abd Rahman |