



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2- ICAISC 2025

Time: 12:00-12:30

Venue: Main Theater

#	Topic	Time	Keynote Speaker	Link to live
1	From Connectivity to Intelligence 5G Open RAN and AI for Smarter Cities	12:00 - 12:150	Dr. Abdullah Alsuaybi	● LIVE
2	Establishing Trust in Smart Cities: Advancing Security and Privacy in IoT, AI, and Distributed Energy Systems through Cryptographic Innovations	12:15 - 12:30	Dr. Hilal Houssain	● LIVE

Day 2: 10-2-2025 – Room 204- Session 1- 204

Paper ID	Title	Time	Authors	Link to live
198	Hausa Handwriting Character Recognition Using CNN and Tesseract	9:00 - 9:20	Muhammad Khamis Dauda, Umar Musa and Hassanin Al-Barhamtoshy	● LIVE
71	A Hybrid Ensemble Deep Learning Approach for Detecting Polymorphic Malware	9:20 - 9:40	Nasser Alsharif	● LIVE
97	S-shaped versus V-shaped Transfer Functions for Salp Swarm Algorithm in Sentiment Analysis Feature Selection Problem	9:40 - 10:00	Dinar Ajeng Kristiyanti and Akhmad Hairul Umam	● LIVE
98	Data Generation in Healthcare using Constraint Satisfaction Parameters (CSP)	10:00 - 10:20	Hassanin Al-Barhamtoshy and Tarik Himdi	● LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 10-2-2025- Room 207- Session 1

Paper ID	Title	Time	Authors	Link to live
65	Enhancing Skin Cancer Detection: An Integrated Approach Using Deep Learning and Metaheuristic Algorithms	9:00 - 9:20	Safia Mohamed, Zaher Al Aghbari and Ahmed M. Khedr	● LIVE
67	Accurate and Interpretable Maize Disease Classification using Deep Transfer Learning and XAI	9:20 - 9:40	Alaa Elsayad, Faisal Al Qahtani, Faisal Alajeeri, Saad F Al-Dosari and Saad M Al-Dosari	● LIVE
91	YOLOv7 for Real-Time Monitoring of Heat Loss Regions in Building Envelopes using UAV-Infrared Thermography	9:40 - 10:00	Ali Waqas and Mohamad T. Araji	● LIVE
14	Innovating Accreditation: A Smart Education Management System Powered by Generative Pre-trained Transformer	10:00 - 10:20	Gilang Aulia Muhamad, Bassma Saleh Alsulami and Khalid Omar Thabit	● LIVE

Day 2: 10-2-2025- Room 213- Session 1

147	Precision Farming with Autonomous Drones: Real-time Data and Efficient Fertilization Techniques	9:00 - 9:20	Md.Maidul Islam Shehab, Md. Rafsan Jany, Shahin Alam, Arnab Sarker, Md. Shajib Hossen and Abu Shufian	● LIVE
204	Analysis of Sentiment and Sarcasm in Arabic YouTube Comments Utilizing AraBERT	9:20 - 9:40	Ibrahim Al-Sharif and Hassanin Al-Barhamtoshy	● LIVE
157	Improving the Quality of Services and Increasing Customer Satisfaction in the Hotel	9:40 - 10:00	Mais Alkhalaf, Raghad Alhashmi, Rahaf Alshareef, Rahaf Alharbi and Salma Elhaj	● LIVE
168	Autonomous Parking Valet System: Path Planning and Control in Complex Environments	10:00 - 10:20	Md Ismail Hossain, Marin-Ul Alam, Minul Khan Rahat, Md Asfaqur Rahman, Abu Shufian and Md. Saniat Rahman Zishan	● LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 9-2-2025 Room 216- Session 1

Paper ID	Title	Time	Authors	Link to live
55	Enhancing Urban Logistics through IoT-integrated NFC-based Smart Post Boxes for Resilient Cities	9:00 - 9:20	Jan Procházka, Alena Kubáčová and Martin Fiala	●LIVE
73	CityShield: An IoT-Driven and AI-Based Threat Detection System for Smart City Operations	9:20 - 9:40	Md. Asif Sarker Emon, Md. Faruk Abdullah Al Sohan, Md. Maruf Hossain Munna, Mustakim Ahmed and Kazi Redwan	●LIVE
75	IntelliGuard: An AI-Powered Threat Detection System for Smart Home Operations	9:40 - 10:00	Syeda Shakira Akter, Md. Maruf Hossain Munna, Kazi Redwan, Mustakim Ahmed and Md. Faruk Abdullah Al Sohan	●LIVE
209	Interactive AI for Advancing and Generating Women's Traditional Fashion in Saudi Arabia	10:00 - 10:20	Hassanin Al-Barhamtoshy, Rania Deabes and Fardus Baalamash	●LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 9-2-2025 – Room 204 - Session 2

Paper ID	Title	Time	Authors	Link to live
99	An AI Analytical Model for Human's Posture Analysis: Posture Correction with MediaPipe	10:30 - 10:50	Hassanin Al-Barhamtoshy, Khaled Alharbi and Atef Rashad	●LIVE
102	Face Recognition Security Against Deepfakes by Using Multimodal Detection: A Survey	10:50 - 11:10	Fatimah Alqattan, Rahma Alsubaiey, Norah Albutaysh, Fatimah Alnasser and Haythem Alhumud	●LIVE
120	Interpretable Arabic Hate Speech Detection using Large Language Mode	11:10 - 11:30	Majed Alwateer, Ibrahim Gad, Malik Almaliki, Hasan Hashim, Ghada Elmarhomy, Mahmoud Elmarhomy and Elsayed Atlam	●LIVE
140	No Bag Left Behind	11:30 - 11:50	Ahmad Melebari, Yousef Alyamani, Abdullah Alharbi, Nasser Albishri, Haitham Sindi, Bakheet Aljedaani and Tarik Alafif	●LIVE

Day 2: 9-2-2025- Room 207- Session 2

104	Predicting the Lifespan of Lithium-Ion Batteries: Integrating Initial Data with Machine Learning Approaches	10:30 - 10:50	Md Ismail Hossain, Md Towfiq Uz Zaman, Tarifuzzaman Riyad, Hasanur Zaman Anonto, Hridoy Das and Abu Shufian	●LIVE
107	Collaborative Learning Integration for Enhanced Photovoltaic System Power Forecasting: A Novel Ensemble Approach	10:50 - 11:10	Kehinde Ridwan Kamil, Umar F. Khan, Ray Sheriff, Xutao Deng and Hafeez Ullah Amin	●LIVE
111	Object Identification Using Active Acoustic Sensing	11:10 - 11:30	Shigeki Yamazaki and Mitsuharu Matsumoto	●LIVE
112	A Sustainable Approach to Energy Management: Multisectoral Collaboration for Second-Life Electric Vehicle Batteries	11:30 - 11:50	Ellia Kristiningrum, Rahmat Nurcahyo, Sik Sumaedi, Fena Dwitiyawiyarti and Muhamad Asvial	●LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 9-2-2025 – Room 213- Session 2

Paper ID	Title	Time	Authors	Link to live
25	WPDS - Smart Wireless Water Pollution Detection System using IoT for Better Monitoring of Water Quality	10:30 - 10:50	Saman Iftikhar and Rana Khaled	●LIVE
48	Warehouse Management and Tracking System for University Assets Using IoT Technology to Optimize Operations and Reduce Randomness	10:50 - 11:10	Salma Elhag, Bashair Al-Joudi, Alaa Alrfeai and Ekram Alhazmi	●LIVE
59	Comparative Analysis of Communication Protocols in Blockchain-IoT Systems for Optimizing IoT Data Flow Efficiency	11:10 - 11:30	Manar Alnaghes and Hong Shen	●LIVE
74	IoT-Enabled Smart Air Traffic Control for Drones in Urban Areas: AI-Driven Route Optimization and Energy Management	11:30 - 11:50	Khondaker Iffti Hasan Turjo, Mustakim Ahmed, Kazi Redwan, Md. Faruk Abdullah Al Sohan, Afroza Nahar and Mohammad Sakib Mahmood	●LIVE

Day 2: 9-2-2025 – Room 216- Session 2

87	Optimal Design of Electric Vehicle Battery Swap Charging Station for Smart Cities in Saudi Arabia	10:30 - 10:50	Yassir Alhazmi, Yasser Turkistani, Mohammed Alotaibi, Abdulaziz Al-Otaibi, Suhayb Al-Harbi, Abdulmalik Almalki and Nawaf Al-Otaibi	●LIVE
90	Novel AI-Genetics Algorithm for Renewable Bioenergy Generation in City Centers	10:50 - 11:10	Adham Elmalky and Mohamad Araji	●LIVE
115	A Comprehensive Human Factors Approach to Pedestrian Accidents Analysis in Urban Environments	11:10 - 11:30	Omar Alharasees, Haitham A. Al Hasanat and Rana Al-Matarneh	●LIVE
53	A systemic review of Healthcare Challenges due to Ethical Implications: A PRISMA Analysis	11:30 - 11:50	Aftab Ara and Anisha Thomas	●LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 9-2-2025 – Room 204 Session 3

Paper ID	Title	Time	Authors	Link to live
144	Machine Learning Applications in Predictive Fetal Health Assessment and Early Intervention	01:30 - 01:50	Sowrov Komar Shib, Durjoy Roy Dipto, Tanvir Rahman, Jannatul Umma Asia, Anjuman Ara and Abu Shufian	●LIVE
148	Stacked LSTM-GRU with Double Attention model for Arabic Aspect-Based Sentiment Analysis	01:50 - 02:10	Athere Alghamdi, Mounira Taileb and Nada Almani	●LIVE
170	Forecasting Prices of Strategic Food Products: Time Series Models in the Context of Post-Crisis Market Disruption	02:10 - 02:30	Ahmed Harbaoui	●LIVE
172	Enhancing Solar Panel Efficiency through Advanced Dust Detection: A Comparative Study of VGG16, VGG19, and Inception V3 Convolutional Neural Networks	02:30 - 02:50	Sashyni Islam, Md Towfiq Uz Zaman, Hasanur Zaman Anonto, Tanay Banik, Md Ismail Hossain and Abu Shufian	●LIVE

Day 2: 9-2-2025 – Room 207 - Session 3

123	90 GHz Power Amplifier in 150nm GaAs Process	01:30 - 01:50	Jun Yan Lee, Duo Wu, Xuanrui Guo, Jian Ding Tan, Khairun Nisa Minhad and Mohammad Arif Sobhan Bhuiyan	●LIVE
174	Quick Park: Integrated Sensor-Based Smart Parking System with Chatbot for Enhanced Urban Mobility and Traffic Management	01:50 - 02:10	Hanouf Albatati, Shereen Meer, Mashael Aljohani, Faris Alharbi and Reema Albehise	●LIVE
133	Evaluating the Effectiveness and Accuracy of Multi-Table Potentials (MTPs) in Active Learning for Simulation and Prediction	02:10 - 02:30	Ezekiel Nwokolo	●LIVE
142	Assessment of Mechanical and Antimicrobial Properties of Die-Cast Al Scrap-Cu Alloy for Contact Surface Application	02:30 - 02:50	Maruf Kolawole, Jacob Aweda, Sefiu Bello, Kamoru Oladosu and Zainab Saheed	●LIVE



Western Saudi Arabia Section

ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 2: 9-2-2025- Room 213 - Session 3

Paper ID	Title	Time	Authors	Link to live
95	Deep Learning for Cyber Security Deephoax Detection	01:30 - 01:50	Sy Yuliani Yakub, Rivo Juicer Wowor, David Agustriawan, Irma Wati, Dinar Ajeng Kristiyanti, P.M. Winarno, Rosilah, Roshayu Mohammad and Randy Zahran Razzaq	●LIVE
124	A Federated Learning Approach to Strengthen IoT-Based Intrusion Detection Against Low-Rate DDoS Attacks	01:50 - 02:10	Iftikhar Ahmad	●LIVE
183	Comparative Analysis of Large Language Models in Solidity Smart Contract Vulnerability Detection: Review	02:10 - 02:30	Amjad Almaghthawi and Wael Yafooz	●LIVE
139	Quantum Cryptography and Post-Quantum Security: Safeguarding Cryptographic Protocols Against Quantum Threats	02:30 - 02:50	Bushra Al-Anesi, Mohammed Ishaq and Mohammed Khamis	●LIVE