IEEE Western Saudi Arabia Section

ICAISC 2025
The 2nd International Conference on Advanced Innovations in Smart Cities

Day 2: 10-02-2025

ROOM 204-1: Interactive board

Zoom Link	https://us02web.zoom.us/j/84844151583?pwd=iHzQ6FxTi0soudXCy2xNXeUfpAdqvl.1											
			Room Supervisor			**Mr. Faisal Alshamiri**		**IT:Hassan**				
Registration	**Session 1**			Break	**Session 2**				**Keynote Speakers**	Payer and lunch Break	**Session 3**	
08:30	9:00			10:20	10:30				12:00	12:30	01:30	
09:00	10:20			10:30	11:50				12:30	01:30	02:50	

Session Chair	Dr. Ehab Abubakr	AI	Time	Session Chair	Dr. Nadine Akkari + Dr.Masheeal Khayyat	AI	Time		Session Chair		Dr. Mohammad Khamis + Dr. Eman Salem Alashwali	AI	Time
Paper ID	Title	Authors		Paper ID	Title	Authors					Paper ID	Title	Authors	
198	Hausa Handwriting Character Recognition Using CNN and Tesseract	Muhammad Khamis Dauda, Umar Musa and Hassanin Al-Barhamtoshy	9:00 - 9:20	99	An AI Analytical Model for Human's Posture Analysis: Posture Correction with MediaPipe	Hassanin Al-Barhamtoshy, Khaled Alharbi and Atef Rashad	10:30 - 10:50				144	Machine Learning Applications in Predictive Fetal Health Assessment and Early Intervention	Sowrov Komar Shib, Durjoy Roy Dipto, Tanvir Rahman, Jannatul Umma Asia, Anjuman Ara and Abu Shufian	01:30 -01:50
71	A Hybrid Ensemble Deep Learning Approach for Detecting Polymorphic Malware	Nasser Alsharif	9:20 - 9:40	102	Face Recognition Security Against Deepfakes by Using Multimodal Detection: A Survey	Fatimah Alqattan, Rahma Alsubaiey, Norah Albutaysh, Fatimah Alnasser and Haythem Alhumud	10:50 - 11:10				148	Stacked LSTM-GRU with Double Attention model for Arabic Aspect-Based Sentiment Analysis	Athere Alghamdi, Mounira Taileb and Nada Almani	01:50 - 02:10
97	S-shaped versus V-shaped Transfer Functions for Salp Swarm Algorithm in Sentiment Analysis Feature Selection Problem	Dinar Ajeng Kristiyanti and Akhmad Hairul Umam	9:40 - 10:00	120	Interpretable Arabic Hate Speech Detection using Large Language Mode	Majed Alnateer, Ibrahim Gad, Malik Almaliki, Hasan Hashim, Ghada Elmarhomy, Mahmoud Elmarhomy and Elsayed Atlam	11:10 - 11:30				170	Forecasting Prices of Strategic Food Products: Time Series Models in the Context of Post-Crisis Market Disruption	Ahmed Harbaoui	02:10 - 02:30
98	Data Generation in Healthcare using Constraint Satisfaction Parameters (CSP)	Hassanin Al-Barhamtoshy and Tarik Himdi	10:00 - 10:20	140	No Bag Left Behind	Ahmad Melebari, Yousef Alyamani, Abdullah Alharbi, Nasser Albishri, Haitham Sindi, Bakheet Aljedaani and Tarik Alafif	11:30 - 11:50				172	Enhancing Solar Panel Efficiency through Advanced Dust Detection: A Comparative Study of VGG16, VGG19, and Inception V3 Convolutional Neural Networks	Sashyni Islam, Md Towfiq Uz Zaman, Hasanur Zaman Anonto, Tanay Banik, Md Ismail Hossain and Abu Shufian	02:30 02:50

Venue: Theater
Dr. Abdullah Alsuaidi:
From Connectivity to Intelligence 5G Open RAN and AI for Smarter Cities
Dr. Hilal Houssain:
Establishing Trust in Smart Cities: Advancing Security and Privacy in IoT, AI, and Distributed Energy Systems through Cryptographic Innovations

Payer and lunch Break

ROOM 207-1: Interactive board

Zoom Link	https://us02web.zoom.us/j/85195143481?pwd=6wnTY1J2ShWZaT38wmqhw8tIbdCYam.1											
			Room Supervisor			**Mr. Ali Faqih**		**IT:Adel**				
Registration	**Session 1**			Break	**Session 2**				**Keynote Speakers**	Payer and lunch Break	**Session 3**	
08:30	9:00			10:20	10:30				12:00	12:30	01:30	
09:00	10:20			10:30	11:50				12:30	01:30	02:50	

Session Chair	Prof. Khalid Albahnasy	AI	Time	Session Chair	Prof. Khalid Albahnasy	ICT	Time		Session Chair		Dr. Zainab Rabea	ICT	Time
Paper ID	Title	Authors		Paper ID	Title	Authors					Paper ID	Title	Authors	
65	Enhancing Skin Cancer Detection: An Integrated Approach Using Deep Learning and Metaheuristic Algorithms	Safia Mohamed, Zaher Al Aghbari and Ahmed M. Khedr	9:00 - 9:20	104	Predicting the Lifespan of Lithium-Ion Batteries: Integrating Initial Data with Machine Learning Approaches	Md Ismail Hossain, Md Towfiq Uz Zaman, Tarifuzzaman Riyad, Hasanur Zaman Anonto, Hridoy Das and Abu Shufian	10:30 - 10:50				123	90 GHz Power Amplifier in 150nm GaAs Process	Jun Yan Lee, Duo Wu, Xuanrui Guo, Jian Ding Tan, Khairun Nisa Minhad and Mohammad Arif Sobhan Bhuivan	01:30 -01:50
67	Accurate and Interpretable Maize Disease Classification using Deep Transfer Learning and XAI	Alaa Elsayad, Faisal Al Qahtani, Faisal Alajeeri, Saad F Al-Dosari and Saad M Al-Dosari	9:20 - 9:40	107	Collaborative Learning Integration for Enhanced Photovoltaic System Power Forecasting: A Novel Ensemble Approach	Kehinde Ridwan Kamil, Umar F. Khan, Ray Sheriff, Xutao Deng and Hafeez Ullah Amin	10:50 - 11:10				174	Quick Park: Integrated Sensor-Based Smart Parking System with Chatbot for Enhanced Urban Mobility and Traffic Management	Hanouf Albatati, Shereen Meer, Mashael Aljohani, Faris Alharbi and Reema Albehise	01:50 - 02:10
91	YOLOv7 for Real-Time Monitoring of Heat Loss Regions in Building Envelopes using UAV-Infrared Thermography	Ali Waqas and Mohamad T. Araji	9:40 - 10:00	111	Object Identification Using Active Acoustic Sensing	Shigeki Yamazaki and Mitsuharu Matsumoto	11:10 - 11:30				133	Evaluating the Effectiveness and Accuracy of Multi-Table Potentials (MTPs) in Active Learning for Simulation and Prediction	Ezekiel Nwokolo	02:10 - 02:30
14	Innovating Accreditation: A Smart Education Management System Powered by Generative Pre-trained Transformer	Gilang Aulia Muhamad, Bassma Saleh Alsulami and Khalid Omar Thabit	10:00 - 10:20	112	A Sustainable Approach to Energy Management: Multisectoral Collaboration for Second-Life Electric Vehicle Batteries	Ellia Kristiningrum, Rahmat Nurcahyo, Sik Sumaedi, Fena Dwitiyawiyarti and Muhamad Asvial	11:30 - 11:50				142	Assessment of Mechanical and Antimicrobial Properties of Die-Cast Al Scrap-Cu Alloy for Contact Surface Application	Maruf Kolawole, Jacob Aweda, Sefiu Bello, Kamoru Oladosu and Zainab Saheed	02:30 02:50

ROOM 213-1: Interactive board

Zoom Link	https://us02web.zoom.us/j/81518056563?pwd=K2qbwX9DB0IMZVakrb6iqHQEMzKwHu.1											
			Room Supervisor			**Dr. Moataz Khalil**		**IT:Eng.Rafat**				
Registration	**Session 1**			Break	**Session 2**				**Keynote Speakers**	Payer and lunch Break	**Session 3**	
08:30	9:00			10:20	10:30				12:00	12:30	01:30	
09:00	10:20			10:30	11:50				12:30	01:30	02:50	

Session Chair	Dr. Nadine Akkari + Arwa Allinjawi	ICT	Time	Session Chair	Dr. Mohammed Khamis	IOT	Time		Session Chair		Prof. Khalid Albahnasy	Cybersecurity	Time
Paper ID	Title	Authors		Paper ID	Title	Authors					Paper ID	Title	Authors	
147	Precision Farming with Autonomous Drones: Real-time Data and Efficient Fertilization Techniques	Md.Maidul Islam Shehab, Md. Rafsan Jany, Shahin Alam, Arnab Sarker, Md. Shajib Hossen and Abu Shufian	9:00 - 9:20	25	WPDS - Smart Wireless Water Pollution Detection System using IoT for Better Monitoring of Water Quality	Saman Iftikhar and Rana Khaled	10:30 - 10:50				95	Deep Learning for Cyber Security Deephoax Detection	Sy Yuliani Yakub, Rivo Juicer Wowor, David Agustriawan, Irma Wati, Dinar Ajeng Kristiyanti, P.M. Winarno, Rosilah, Roshayu Mohammad and Randy Zahran Razzag	01:30 -01:50
204	Analysis of Sentiment and Sarcasm in Arabic YouTube Comments Utilizing AraBERT	Ibrahim Al-Sharif and Hassanin Al-Barhamtoshy	9:20 - 9:40	48	Warehouse Management and Tracking System for University Assets Using IoT Technology to Optimize Operations and Reduce Randomness	Salma Elhag, Bashair Al-Joudi, Alaa Alrfeai and Ekram Alhazmi	10:50 - 11:10				124	A Federated Learning Approach to Strengthen IoT-Based Intrusion Detection Against Low-Rate DDoS Attacks	Iftikhar Ahmad	01:50 - 02:10
157	Improving the Quality of Services and Increasing Customer Satisfaction in the Hotel	Mais Alkhalaf, Raghad Alhashmi, Rahaf Alshareef, Rahaf Alharbi and Salma Elhaj	9:40 - 10:00	59	Comparative Analysis of Communication Protocols in Blockchain-IoT Systems for Optimizing IoT Data Flow Efficiency	Manar Alnaghes and Hong Shen	11:10 - 11:30				183	Comparative Analysis of Large Language Models in Solidity Smart Contract Vulnerability Detection: Review	Amjad Almaghthawi and Wael Yafooz	02:10 - 02:30
168	Autonomous Parking Valet System: Path Planning and Control in Complex Environments	Md Ismail Hossain, Marin-Ul Alam, Minul Haw Rahat, Md Asfaqur Rahman, Abu Shufian and Md. Saniat Rahman Zishan	10:00 - 10:20	74	IoT-Enabled Smart Air Traffic Control for Drones in Urban Areas: AI-Driven Route Optimization and Energy Management	Khondaker Iffti Hasan Turjo, Mustakim Ahmed, Kazi Redwan, Md. Faruk Abdullah Al Sohan, Afroza Nahar and Mohammad Sakib Mahmood	11:30 - 11:50				139	Quantum Cryptography and Post-Quantum Security: Safeguarding Cryptographic Protocols Against Quantum Threats	Bushra Al-Anesi, Mohammed Ishaq and Mohammed Khamis	02:30 02:50

ROOM 216-1: Interactive board

Zoom Link	https://us02web.zoom.us/j/81510801954?pwd=sLeQ0Kba8tESRwNwbLE3crLvqibObn.1											
			Room Supervisor			**Mr. Faisal Alshamiri**		**IT:Eng.Omar**				
Registration	**Session 1**			Break	**Session 2**				**Keynote Speakers**	Payer and lunch Break	**Session 3**	
08:30	9:00			10:20	10:30				12:00	12:30	01:30	
09:00	10:00			10:30	11:30				12:30	01:30	03:00	

Session Chair	Dr. Zainab Rabea	Smart Cities	Time	Session Chair	Dr. Zainab Rabea	Smart Cities	Time		Session Chair		Mrs.Hanoof Batati	Smart Cities	Time
Paper ID	Title	Authors		Paper ID	Title	Authors					Paper ID	Title	Authors	
55	Enhancing Urban Logistics through IoT-integrated NFC-based Smart Post Boxes for Resilient Cities	Jan Procházka, Alena Kubáčová and Martin Fiala	9:00 - 9:20	87	Optimal Design of Electric Vehicle Battery Swap Charging Station for Smart Cities in Saudi Arabia	Yassir Alhazmi, Yasser Turkistani, Mohammed Alotaibi, Abdulaziz Al-Otaibi, Suhayb Al-Harbi, Abdulmalik Almalki and Nawaf Al-Otaibi	10:30 - 10:50							
73	CityShield: An IoT-Driven and AI-Based Threat Detection System for Smart City Operations	Md. Asif Sarker Emon, Md. Faruk Abdullah Al Sohan, Md. Maruf Hossain Munna, Mustakim Ahmed and Kazi Redwan	9:20 - 9:40	90	Novel AI-Genetics Algorithm for Renewable Bioenergy Generation in City Centers	Adham Elmalky and Mohamad Araji	10:50 - 11:10							
75	IntelliGuard: An AI-Powered Threat Detection System for Smart Home Operations	Syeda Shakira Akter, Md. Maruf Hossain Munna, Kazi Redwan, Mustakim Ahmed and Md. Faruk Abdullah Al Sohan	9:40 - 10:00	115	A Comprehensive Human Factors Approach to Pedestrian Accidents Analysis in Urban Environments	Omar Alharasees, Haitham A. Al Hasanat and Rana Al-Matarneh	11:10 - 11:30							
209	Interactive AI for Advancing and Generating Women's Traditional Fashion in Saudi Arabia	Hassanin Al-Barhamtoshy, Rania Deabes and Fardus Baalamash	10:00 - 10:20	53	A systemic review of Healthcare Challenges due to Ethical Implications: A PRISMA Analysis	Aftab Ara and Anisha Thomas	11:30 - 11:50							

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Payer and lunch Break

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ROOM 217-1: Interactive board

Zoom Link	https://us02web.zoom.us/j/83857913777?pwd=aaLjqK4mah9Lu4sUHWjoijcfQlEuax.1

Room Supervisor

Registration	Session 1					Session 2				Keynote Speakers	Payer and lunch Break		Session 3			
08:30	9:00					10:30				12:00	12:30		01:30			
09:00	10:30					12:00				12:30	01:30		03:00			
	Session Chair					Session Chair				Zoom Link :Venue: Theater Dr. Abdullah Alsuaydi: From Connectivity to Intelligence 5G Open RAN and AI for Smarter Cities Dr. Hilal Houssain: Establishing Trust in Smart Cities: Advancing Security and Privacy in IoT, AI, and Distributed Energy Systems through Cryptographic Innovations	Payer and lunch Break		Session Chair			
	Paper ID	Title	Authors			Paper ID	Title	Authors					Paper ID	Title	Authors	