



Western Saudi Arabia Section

# ICAISC 2025

The 2<sup>nd</sup> International Conference on Advanced Innovations in Smart Cities

## Day 3: 11-02-2025

### ROOM 204-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/84844151583?pwd=iHzQ6FXTi0soudXCy2xNXeUfpAdqvl.1>

Room Supervisor

Dr.Ahmad Hamad

IT:Hassan

Registration	Session 1				Break	Session 2				Closing Session	Prizes
08:30	9:00				10:20	10:30				12:00	12:30
09:00	10:20				10:30	11:50				12:30	01:00
Session Chair	Prof. Khalid Albahnasy		AI	Time	Session Chair	Dr. Haneen Bawayan + Dr. Ehab Abubakr		AI	Time	Theater	Theater
Paper ID	Title		Authors		Paper ID	Title		Authors			
178	Classification of Diabetes Using Ensemble and Individual Machine Learning Algorithms		Helmi Imaduddin, Widi Widayat and Fiddin Yusufida A'la	9:00 - 9:20	213	Social Media Multi-Emotion Detection		Soha Ibrahim, Bahy Mohammed, Mohammed Ahmed and Khaled Elbahnasy	10:30 - 10:50		
184	Review on Artificial Intelligence Techniques For Recognizing Arabic Sign Language		Taghreed Al-Jarboi and Wael Yafooz	9:20 - 9:40	47	Deep Reinforcement Learning for Travel Sequence Recommendations: A Dubai Case Study		Razan Al Bayouk, Zaher Al Aghbari and Imad Afyouni	10:50=11:10		
185	Anomaly Detection in Industrial Machinery Using Machine Learning and Deep Learning Techniques with Vibration Data for Predictive Maintenance		Md Ismail Hossain, Shahinuzzaman Sanim, S. M. Kamruzzaman, Md. Shaoran Sayem, Mahfuja Yesmin and Abu Shufian	9:40 - 10:00	26	Innovative Eye-Tracking and Blink Detection System for Empowering Disabled Users through Assistive Technology		Reem Bafalah, Manar Alghamdi, Rola Alaryani and Rania Elmanfaloty	11:10 - 11:30		
211	Selfish-free Influential Nodes Detection in Mobile Social Networks		Doaa Abdelmohsen, Tamer Abdelkader, Mohamed Hamdy and Khaled Elbahnasy	10:00 - 10:20	214	AI-Driven Multi-Crop Disease Detection and Classification Using Deep Learning		Hanan Faisal, Ali Muna and Khaled Elbahnasy	11:30 - 11:50		

### ROOM 207-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/85195143481?pwd=6wnTY1J2ShWZaT38wmqhw8tlbdCYam.1>

Room Supervisor

Mr. Faisal Alshamiri

IT:Adel

Registration	Session 1				Break	Session 2				Closing Session	Prizes
08:30	9:00				10:20	10:30				12:00	12:30
09:00	10:20				10:30	11:50				12:30	01:00
Session Chair	Dr. Mohammed Khamis		ICT	Time	Session Chair	Dr. Mohammed Khamis		ICT	Time	Theater	Theater
Paper ID	Title		Authors		Paper ID	Title		Authors			
169	Sustainable Energy Generation Trends - Insights from Python Analysis		Hasanur Zaman Anonto, Md Ismail Hossain, Al Shahriar Zishan, Md Akteruzzaman, Md Ashikul Islam and Abu Shufian	9:00 - 9:20	145	Blockchain-Driven Smart Cities: Review of Key Applications and Emerging Trends		Kesara Wimal, Gary Cullen and John Donovan	10:30 - 10:50		
177	A Comprehensive Study of Microservices Architecture in Comparison with SOA and Monolithic Models		Chowdhury Abida Anjum Era, Syada Tasmia Alvi, Md. Sohel Rana and Sadia Jannat Mitu	9:20 - 9:40	130	Predictive Modeling of Battery Second-Life Performance Using Support Vector Regression and Voltage Features		Md Ismail Hossain, Nasif Hannan, Hridoy Das, Md. Ashiqur Rahman Akash, Md Saqid Ashraf and Abu Shufian	10:50=11:10		
182	Dual Band LoRa/GPS Dipole Antenna with Harmonic Suppression Capability		Shipun Anuar Hamzah, Mohd Noh Dalimin, Khairun Nidzam Ramli, Fauziahanim Che Seman, Wahyu Mulyo Utomo, Bilal A Khawaja, Shahilah Nordin, Muladi Muladi and Muhammad Sani Yahya	9:40 - 10:00	70	Optimized Hardware Implementation of FOC for BLDCs in UAVs Using a 2-DOF PI (Blended PI-IP) Controller and PSO		Abd Alati Ahmed, Steven Liu and Gerry Vincent Geyer	11:10 - 11:30		
190	Semiconductor Manufacturing Industry: Assessment, Challenges, and Future Trends		Khalid Tantawi, Yasmin Musa, Maged Mikhail, Jeffrey Ma, Dalal Alharthi, Larry Flatt and Lyn Potter	10:00 - 10:20	216	Secure Pilgrims Assistance System using an Augmented Reality		Amnah Alsulami	11:30 - 11:50		

### ROOM 213-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/81518056563?pwd=K2qbwX9DB0IMZVakrb6iqHqEMzKwHu.1>

Room Supervisor

Mr. Ali Faqih

IT:Eng.Rafat

Registration	Session 1				Break	Session 2				Closing Session	Prizes
08:30	9:00				10:20	10:30				12:00	12:30
09:00	10:20				10:30	11:50				12:30	01:00
Session Chair	Dr. Haneen Bawayan + Dr. Ehab Abubakr		IOT	Time	Session Chair	Dr. Nadine Akkari		Cybersecurity	Time	Theater	Theater
Paper ID	Title		Authors		Paper ID	Title		Authors			
77	Advanced IoT-Enabled Forest Management System for Wildfire Detection and Ecosystem Protection: A Case Study in the Sundarbans		Afroza Nahar, Md. Faruk Abdullah Al Sohan, Kazi Redwan and Mustakim Ahmed	9:00 - 9:20	17	Taafi - A Private and Secure Communication Application		Fahad Arshad, Abdullah Hassan, Mohannad Abu Shaker, Saud Aljohar and Bushra Al-Anesi	10:30 - 10:50		
113	A Bibliometric Analysis of Internet of Things (IoT) Research Trends on Electric Cars		Ajun Tri Setyoko, Rahmat Nurcahyo, Muhammad Suryanegara, Sik Sumaedi and Khairi Hindriyandhito	9:20 - 9:40	205	A Method for Assessing the Performance of Cryptographic Pseudorandom Number Generators Utilizing Artificial Neural Networks		Mohammed Aljohani and Hassanin Al-Barhamtoshy	10:50=11:10		
108	IoT-Enhanced Paper-Based Testing Model for the TOEFL Institutional Testing Program		Haris Haris, Basuki Wibawa, Moch Sukardjo, Daryanto Daryanto and Mahdiyah Mahdiyah	9:40 - 10:00	154	Energy Recovery and Power Management in EVs Using Supercapacitors and Regenerative Braking		Sowrov Komar Shib, Durjoy Roy Dipto, Md Tanvir Rahman, Md Ashikul Islam, Md Mahafuzul Islam and Abu Shufian	11:10 - 11:30		
212	Enabling Moving Services in Enterprise Computing		Mohamed Hamdy, Ahmed Samy, Mohamed Dahab and Khaled Elbahnasy	10:00 - 10:20	215	Generative AI in Computer Science Education: Insights from Topic Modeling and Text Network Analysis		May Alashwal	11:30 - 11:50		



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### ROOM 216-1: Interactive board

Zoom Link												
<a href="https://us02web.zoom.us/j/81510801954?pwd=sl_eQ0kba8IESRwNwBLE3crlVpR2Cb.1">https://us02web.zoom.us/j/81510801954?pwd=sl_eQ0kba8IESRwNwBLE3crlVpR2Cb.1</a>												
Room Supervisor					Mrs.Hayam Hasan							
IT:Eng.Omar												
Registration	Session 1				Break	Session 2				Closing Session	Prizes	
08:30	9:00				10:20	10:30				12:00	12:30	
09:00	10:20				10:30	11:50				12:30	01:00	
	Session Chair	Dr. Zainab Rabea		Smart Cities	Time	Session Chair	Prof. Khalid Albahnasy		Smart Cities	Time	Theater	Theater
	Paper ID	Title		Authors		Paper ID	Title		Authors			
	119	Exploring AI Applications for Optimal Business Location Selection in Smart Cities: A Literature Review		Hala Alhazaa, Farah Aljarboa, Jana Albelaihed, Joori Alqahtani, Reem Alhazzani, Sumayh Aljameel and Deemah Alqahtani	9:00 - 9:20	127	Toward AI-Driven Solutions for Smart Cities in KSA		Marwan Aljijakli and Nadine Akkari	10:30 - 10:50		
	134	YOLO Meets FedAVG: A Privacy-Preserving Approach to AV Object Detection		Nusaybah M.Alahdal, Felwa Abukhodair, Leila Haj Meftah and Asma Cherif	9:20 - 9:40	146	Metaverse Design Trends Shaping Smart Cities through Sentiment and Influencer Dynamics		Eman Alkhalifah	10:50=11:10		
	166	Reinforcement Learning for Intrusion Detection: Recent Advances and Datasets		Dalal Fathi, Afraa Attiah, Abeer Hakeem and Asmaa Cherif	9:40 - 10:00	156	A Framework for Overcoming Data Accessibility Challenges in Urban Microgrids for Smart Cities		Shievam Kashyap, Christoph Schaffer, Wieland Schwinger, Georg Hartner, Marc Kurz and Oliver Hoedl	11:10 - 11:30		
	151	A High-Performance 5G/6G Framework for Smart Cities Supporting Multi-Level Artificial Intelligence		Jeffrey Wallace, Miroslav Vukovic, Toni Karimovic and William Edwards	10:00 - 10:20	179	Zero-Trust Architecture for Smart City Healthcare Systems		Shahd Alsofyani, Mohammed Ishaque and Mostafa Nofal	11:30 - 11:50		

### ROOM 217-1: Interactive board

Zoom Link												
<a href="https://us02web.zoom.us/j/83857913777?pwd=aaLjqK4mah9Lu4sUHWjoicfQIEuax.1">https://us02web.zoom.us/j/83857913777?pwd=aaLjqK4mah9Lu4sUHWjoicfQIEuax.1</a>												
Room Supervisor												
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	Session Chair					Session Chair					Theater	Theater
	Paper ID	Title		Authors		Paper ID	Title		Authors			