



ICAISC 2025

The 2nd International Conference on
Advanced Innovations in Smart Cities

Day 1: 9-02-2025

Opening Ceromony of ICAISC 2025

Time: 10:00-11:10

Venue: Main Theater

Zoom Link

<https://us02web.zoom.us/j/84463032324?pwd=taNdG9kA1LnV5x8qs8xKuLOWJEdKPI.1>

Registration 9:00 10:00

Opening Ceromony 10:00 - 11:10 AM

No.	Topic	Time	Speaker
	Royal Anthem		
1	Holy Quran	10:00 - 10:05	
2	Speech of Conference Chairman	10:05 - 10:10	Dr. Tarik Himdi
3	Speech of Chairman of BOD of JIC	10:10 - 10:15	Dr. Saleh Malaika
4	Speech of Vice Chairman of Western Region IEEE Saudi Arabia	10:15 - 10: 20	Dr. Adnan Albar
5	Speech of chair of Technical Program Committee	10:20 - 10:25	Dr. Motafa Nofal
Keynote Speakers			
1	The Transformative Potential of Integrating AI in Healthcare Within the Framework of Smart Cities	10:25 - 10:40	Prof. Mona Alshaikh
2	Measuring What Matters: Challenges in Smart City Indices and Their Impact on Urban Well-Being	10:40 - 10:55	Dr. Samer Yamak
Cultural Program			
	Entertainment session	10:55 - 11:00	
Honoring the sponsors, Committees, and Participants			
		11:00 - 11:10	

Day 1: 9-2-2025 Session 1

ROOM 204-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/89921219231?pwd=aePnCdqfhakEKPR8AXXsqZriAURGs0.1>

Room Supervisor: Dr. Ahmad Hamad

IT: Hassan

11:15 - 12:35

Session Chair	Prof. Khalid Albahnasy	Track: AI	Time
Paper ID	Title	Authors	
22	HAI (Health AI)	Aleena Amjad, Janin Abdulhafeez, Ali Muna and Mohammad Ishaque	11:15 - 11:35
12	Baby Suffocation Prediction System	Rasha Atwah, Mashael Alharthi, Lamees Alharbi, Jana Bashnini and Nujoud Al-Sharif	11:35 - 11:55
20	Enhancing the Safety of Smart Cities by AI Firefighting Robot	Nisrin Alsaiani, Amnah Alshehri, Leen Abdulrazek, Amjad Alkhudaydi, Sarah Hadad and Saman Iftikhar	11:55 - 12:15
45	Overcoming Challenges of Deep fake, Ethical Implications regulation: A risk-based approach	Salma Elhag, Rasha Alharbi, Renad Alsulami and Aseel Alshamrani	12:15 - 12:35



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Day 1: 9-2-2025 Session 1

ROOM 207-1: Interactive board

Zoom Link <https://us02web.zoom.us/j/83048898643?pwd=4YyjozsXaKrpasqCydGdg53YBHftEC.1>

Room Supervisor: Dr. Moataz Khalil

IT:Adel

11:15 - 12:35

Session Chair	Dr. Masheal Khayyat + Dr. Nadine Akkari		Track: AI	Time
Paper ID	Title	Authors		
6	A Simultaneous Confusion-Diffusion Structure for Fast Image Encryption Based on Plaintext-Related Mechanism and Dynamic Josephus Trajectory	Ahmed Kareem Shabeeb, Salah Albermany and Sadiq A. Mehdi		11:15 - 11:35
18	Intrusion Detection for Internet of Medical Things (IoMT) using Extreme Learning Machine	Asma Cherif		11:35 - 11:55
24	Analysis of Machine Learning Techniques for URL Phishing Detection: Protect Users	Adel Albishri and Mohamed Dessouky		11:55 - 12:15
28	A survey on protecting users against phishing attacks	Adel Albishri and Mohamed Dessouky		12:15 - 12:35

Day 1: 9-2-2025 Session 1

ROOM 213-1: Interactive board

Zoom Link <https://us02web.zoom.us/j/83491006891?pwd=fMcciE59iZKhQ7lvO4vjL4NLeZ3NvM.1>

Room Supervisor: Mr. Faisal Alshamiri

IT:Eng.Rafat

11:15 - 12:35

Session Chair	Dr. Mohammed Khamis + Dr. Saman Iftikhar		Track: ICT	Time
Paper ID	Title	Authors		
31	Performance and Implementation Comparison of Knuth-Morris-Pratt and Boyer-Moore String Search Algorithms	Taj Saleh, Fatma Corut Ergin, Malek Malkawi and Reda Alhajj		11:15 - 11:35
38	Remote Blood Sampling Collection	Maha Alyzedi, Noor Alnahdi, Ghydaa Alammash and Salma Elhag		11:35 - 11:55
40	Smart Attendance Management System in Student Housing: A Case Study at King Abdulaziz University	Rana Almadadi, Bashaer Alharbi, Rawan Alamri and Salma Elhag Elhag		11:55 - 12:15
57	Molecular Precision Diagnostic Medicine in Cancer	Mram Almaliki, Gady Alamri, Manal Alsadidi, Ghadi Alshaeri and Salma Elhag		12:15 - 12:35

12:30 -1:30 Prayer and Lunch Break

Day 1: 9-2-2025 Session 2

ROOM 216-1: Interactive board

Zoom Link <https://us02web.zoom.us/j/86715778424?pwd=aLv5SrBvCtjbCSqbl62uNXqzbitW6W.1>

Room Supervisor: Mr. Ali Faqih

IT:Adel

1:30 - 3:10

Session Chair	Prof. Hassanin Albarhamtoshy + Dr. Iftikhar Ahmed		Track: ICT	Time
Paper ID	Title	Authors		
15	Using Machine Learning Techniques to Moderate CO2 Emission in KSA Future Smart Cities	Hossam Meshref, Arwa Alsharbari, Shahd Altalhi, Samaher Alsharif, Ghalia Alharthi and Razan Althubiti		01:30 - 01:50
16	Smart Visual Pollution Detection System	Rothana Alsolami, Rasha Atwah, Ranad Alajlani and Sara Alhajjalli		01:50 - 02:10
44	Privacy in Smart Digital Healthcare During Hajj and Umrah: Challenges and Recommendations	Ahmed Alhazmi		02:10 - 02:30
49	Enhancing Traffic Safety by Strategically Placing Roadside Units for Connected Vehicles: Intercity Roads	Ahmed T. M. Halawani		02:30 - 02:50
19	Protecting privacy and securing smart home network based on Zero Trust Network approach	Maryam Abdulaziz M. Alghamdi and Rahmat Budiarto		02:50 - 03:10
160	Digital Twin Environment with Reinforcement Learning based on Traffic Control	Haythem Alhumud, Ahmed Almohammed Ghadir Aljubara, Ashwaq Alghafly and Ahlam Alanzi		03:10 - 03:30



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Day 1: 9-2-2025 Session 2

ROOM 204-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/89921219231?pwd=aePnCdqfhakEKPR8AXXsqZriAURGs0.1>

Room Supervisor: Mr. Faisal Alshamiri

IT: Hassan

1:30 - 3:30

Session Chair		Prof. Hossam Meshref + Dr. Ehab Abubakr		Track: ICT and AI	Time
Paper ID	Title	Authors			
180	AI-Powered Zero Trust Architecture for Securing Cognitive City Networks	Mohammed Ishaque, Hanouf Albatati and Mostafa Nofal		01:30 - 01:50	
50	Enhancing the autonomy of soft robots in Minimal Invasive Surgeries through computer - vision	Hams Alsirhani and Salma Elhag		01:50 - 02:10	
42	Vital Threat Detection and Monitoring Using Smartwatch and Machine Learning	Salma Elhag, Amal Alghamdi, Amal Alahmari and Abeer Alharbi		02:10 - 02:30	
46	Blockchain Technology Implementation in Telemedicine—A Case Study on Sehaty Platform in Saudi Arabia.	Roaya Alkunaidri, Lina Alakwaa, Shahad Alhothli and Salma Elhag		02:30 - 02:50	
82	Design of Innovative Stand-alone Hybrid Renewable Generation System Harnessing Air Conditioning Wastes	Ayah Onaybisi, Deema Alqarni and Rahaf Alzahrani		02:50 - 03:10	
85	Enhancing Landmark Detection Models Through Multimodal Fusion of Visual Data and Image Captioning	Sura Raya, Imad Afyouni and Zaher Al Aghbari		3:10 - 3:30	

Day 1: 9-2-2025

ROOM 207-1: Interactive board

Zoom Link

<https://us02web.zoom.us/j/83048898643?pwd=4YyjozsXaKrpasqCydGdg53YBHftEC.1>

Room Supervisor:

Session Chair				Track: ICT	Time
Paper ID	Title	Authors			



Day 2: 10-02-2025

ROOM 204-1: Interactive board

Table for Room 204-1: Interactive board. Includes Zoom Link, Registration, Session 1 (08:30-09:00), Session 2 (10:00-11:50), Keynote Speakers (12:00-12:30), Payer and lunch Break (12:30-01:30), and Session 3 (01:30-02:50). Chair: Dr. Ehab Abubakr. Supervisors: Mr. Faisal Alshamiri, IT:Hassan.

ROOM 207-1: Interactive board

Table for Room 207-1: Interactive board. Includes Zoom Link, Registration, Session 1 (08:30-09:00), Session 2 (10:00-11:50), Keynote Speakers (12:00-12:30), Payer and lunch Break (12:30-01:30), and Session 3 (01:30-02:50). Chair: Prof. Khalid Albahnasy. Supervisors: Mr. Ali Faqih, IT:Adel.

ROOM 213-1: Interactive board

Table for Room 213-1: Interactive board. Includes Zoom Link, Registration, Session 1 (08:30-09:00), Session 2 (10:00-11:50), Keynote Speakers (12:00-12:30), Payer and lunch Break (12:30-01:30), and Session 3 (01:30-02:50). Chair: Dr. Nadine Akkari + Arwa Allinjawi. Supervisor: Dr. Moataz Khalil. IT:Eng.Rafat.

ROOM 216-1: Interactive board

Table for Room 216-1: Interactive board. Includes Zoom Link, Registration, Session 1 (08:30-09:00), Session 2 (10:00-11:50), Keynote Speakers (12:00-12:30), Payer and lunch Break (12:30-01:30), and Session 3 (01:30-03:00). Chair: Dr. Zainab Rabea. Supervisors: Mr. Faisal Alshamiri, IT:Eng.Omar.



IEEE
Western Saudi Arabia Section

ICAISC 2025
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Day 2: 10-02-2025

ROOM 217-1: Interactive board

Zoom Link https://us02web.zoom.us/j/83857913777?pwd=aal_lqK4mah9Lu4sUHWjoicfQlEuax.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		Title		Authors		Session Chair		Title		Authors		Session Chair		Title		Authors		
Paper ID						Paper ID						Paper ID						
												Payer and lunch Break						

Visiting Professor
 Dr. Hisham Alshaykh
 From Connectivity to Intelligence 5G Open RAN and AI
 in Smart Cities
 Dr. Hisham Alshaykh
 Establishment, Trust in Smart Cities, Advancing Security
 and Privacy in IoT, AI, and Distributed Energy Systems
 through Cybernetic Innovations



Western Saudi Arabia Section

ICAISC 2025

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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, Fauziahanih 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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Day 3: 11-02-2025

ROOM 216-1: Interactive board

Zoom Link												
https://us02web.zoom.us/j/81510801954?pwd=sl_eQ0kba8IESRwNwBLE3crlVpZCbN.1												
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												
https://us02web.zoom.us/j/83857913777?pwd=aaLjqK4mah9Lu4sUHWjoicfQIEuax.1												
Room Supervisor												
Registration	Session 1				Break	Session 2				Closing Session	Prizes	
08:30	9:00					10:30				12:00	12:30	
09:00										12:30	01:00	
	Session Chair					Session Chair					Theater	Theater
	Paper ID	Title		Authors		Paper ID	Title		Authors			