

4th Kuwait International Conference on Life Sciences (KICLS'2025)
Program for Track on Information Science and Artificial Intelligence

Day 1 - Tuesday November 11, 2025		
SESSION ISAI-IT1	Invited Talk: Cognitive AI: Impacting Healthy Living	Prof. Farhana Zulkernine Queens University, Canada
SESSION ISAI-1	Paper Title	Authors
11:15 AM To 12:30 PM	EEG-Based Classification of Induced Tongue Protrusion Using CSP and CNN on Frequency-Band Topographic Features	¹ Sevgi Gökçe Aslan, ² Bülent Yılmaz ¹ Inonu University, Malatya, Türkiye ² Gulf University for Science and Technology (GUST), Kuwait
	Evaluation of Machine Learning Models for Automated Segmentation of SPECT MPI Scans	¹ Ahmad Alenezi, ¹ Eman Alawdhi, ² Ata Jodeiri, ³ Ali Mayya ¹ Kuwait University, Kuwait, ² Tabrez University, Iran ³ Tishreen University, Latikiya, Syria
	Robotics in Modern Surgery: Revolutionizing Precision, Efficiency, and Patient Outcomes	Wael Farag Abdullah Al-Salem University
	AI-Powered Skin Cancer Detection: From Deep Learning to Dermatological Revolution	Wael Farag Abdullah Al-Salem University
	Attention Matters: Residual Occupancy Forecasting in Healthcare under Stress Conditions	¹ Shaikhah Alkhadhr and ² Haya Alshayji ¹ Kuwait University, Kuwait ² Pennsylvania State University, USA
SESSION ISAI-2	Paper Title	Authors
1:30 PM To 2:45 PM	Predictive Modeling of Multi-Class Urban Crime Patterns Using Machine Learning on Spatiotemporal Data	Fatimah Sheikho, Rand Alhassoun, Abd-Elhamid Taha, Nidal Nasser Alfaisal University, KSA
	Plugged into the Planet: Measuring IoT Sustainability with Greenscore	Zahraa Marafie and Shaikhah Alkhadhr Kuwait University, Kuwait
	AUK Chatbot: An IT-Support AI-Based Virtual Assistant	Ali Roumani, Sayed Ali Altabtabai, Zainab Noorain, Yousef Dallol, Faisal Al-Jenfawi American University of Kuwait, Kuwait

	Intelligent Energy Management System for Hydrogen-based Hybrid Vehicles Using AI Control Strategies	Ghaneemah A. Alasfour, Wael A. Farag, and Zakariya Dalala Abdullah Al-Salem University (AASU), Kuwait
	Predicting CO ₂ Emissions of Geopolymer Concrete Using Machine Learning for Sustainable Construction	^{1*} Dinibutun, S., ² Alshammari, Y., and ¹ Catak, N. ¹ International University of Science and Technology, Kuwait ² Kuwait Institute for Scientific Research
SESSION ISAI-3	Paper Title	Authors
3:00 PM To 4:30 PM	Assessing the Use of Generative AI in Relational Database Schema Generation	Hanady M Abdulsalam and Ranya Alawadhi Kuwait University
	An Assessment of ChatGPT in Performing Software Refactoring	Hanady M. Abdulsalam ¹ , Ranya Alawadhi ¹ , Bader A. Ali ¹ , Aisha A. Alkandari ² , and Jihad Al Dallal ³ ^{1,2} Kuwait University, Kuwait ³ Gulf University for Science and Technology, Kuwait.
	A Software Tool to Analyze and Predict Student Performance via Artificial Intelligence Models	¹ Khajah, M., ² Abdulsalam, H., ² Al-Roumi, E., and ¹ Al-Shatti, M. ¹ Kuwait Institute for Scientific Research, Kuwait ² Kuwait University, Kuwait
	Advancing Urban Governance and Smart City Development with Innovative Blockchain - Integrated Civil and Vital Registration System (CVRS)	Lavanya Murugan American International University
	Developing a Web-based Application to Assist Decision Makers of Charitable Organizations in the State of Kuwait Phase I: Direct Aid Association	N. Al-Fadhli, M. Al-Shatti, A. Othman, H. Almansouri, H. Alostad Kuwait Institute for Scientific Research (KISR), Kuwait
	Sustainable and AI-Driven Digital Transformation of Ethical Review Processes in Higher Education Institutions	¹ Aksu, Muhammed Cagri, and ² Alan, Alper Turan ¹ Artvin Coruh University, Türkiye ² International University for Science and Technology in Kuwait, Kuwait
Day 2 - Wednesday November 12, 2025		
SESSION ISAI-4	Paper Title	Authors
	The Development of Halal Ingredient Scanner App by Using AI for Enhanced Consumer Trust and Compliance	Nurdeng Deuraseh, Haji Abdul Hafidz bin Haji Omar & Arif Deuraseh, and Amira Deuraseh

9:00 AM To 10:15 AM		Universiti Islam Sultan Sharif Ali, Brunei Darussalam
	Online Topic Drift Analysis of AI Ethics Concerns Across Social Media	Arawa AlTarrach, Maryam AlOtaibi, Loulwah AlSumait Kuwait University
	Large Language Model–Mediated Interaction Alignment: A Theory of AI-Driven Second-Language Acquisition	Sami Alenezi International University of Science and Technology, Kuwait
	Enabling Factors to Harness the Full Potential of Artificial Intelligence in the Circular Bioeconomy	Munir Shah Agripixels Ltd, New Zealand
	AI-Driven Personalized Nutrition in the Gulf: A Systematic Review and Conceptual Framework for Culturally Aware Digital Nutrition Interventions	Ali Alfayly and Hanouf Alhammadi Public Authority for Applied Education and Training (PAAET), Kuwait
SESSION ISAI-IT2	Invited Talk: Regulation as Catalyst: A New Blueprint for Sustainable Innovation	Dr. Dari Alhuwail CITRA, Kuwait
SESSION ISAI-5	Paper Title	Authors
11:15 AM To 12:30 PM	A Multi-criteria Based Assessment of Cybersecurity Due Diligence for External Dependencies	Abdullah Yahya Ashkanani Kuwait University
	Visualizing SHA-1: Enhancing the Educational Understanding of Cryptographic Algorithms	¹ Hussain Alfayly, ² Joseph Maguire, and ³ Ali Alfayly ¹ University of Glasgow, UK ² College of Basic Education PAAET, Kuwait
	Pulse of the Campus: Real-Time Health Tracking with Bangle.js 2	¹ Abdelrahman Elshabrawi, ² Jareen Anjom, ¹ Zahraa Marafie, and ¹ Shaikhah Alkhadhr ¹ Kuwait University, Kuwait ² North South University, Bangladesh
	Tele-education System for Dyscalculic Student Let's Count	Maha Almutairi Kuwait University, Kuwait
SESSION ISAI-6	Workshop Title	Presenter
1:30 PM To 2:45 PM	Research Ethics – Principlism and Beyond	Kassem Saleh Kuwait University