

Mathematical Modeling
and Analysis

Computer Engineering and Multimedia

Innovation Technologies

Cyber Security

Software Engineering

Artificial Intelligence
and Data Science



2025, 27th-30th May
Amman, Jordan

ICIT
2025

Conference Program

12th International Conference on Information Technology (ICIT 2025)

Innovation Technologies

ZUJ

جامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan



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Online Sessions – Monday 26/5/2025

Time	Session Number	Link	
10:00–12:00	Online Session 1 Session Chair: Dr. Adnan Rawashdeh	https://zuj-edu.zoom.us/j/93804568826	
10:00–12:00	Online Session 2 Session Chair: Dr. Sohair Alhakeem	https://zuj-edu.zoom.us/j/92286658647	
18:00–19:00	Online Session 3 Session Chair: Dr. Seraj Fayyad	https://zuj-edu.zoom.us/j/97387090967	

Day 1 – Tuesday 27/5/2025

9:00 – 10:00	Registration	Ali Al-Qirem Auditorium (Main Theater) Faculty of Business
10:00 – 11:00	<p>Opening Ceremony – Moderator: Dr. Mohammad Abdallah</p> <ul style="list-style-type: none"> - The Royal Anthem of Jordan - Quran Recitation - Conference Video - Welcome Speech by Conference General Chair: Prof. Aysh Alhroob - Welcome Speech by Al-Zaytoonah University President: Prof. Mohammad Ahmad Al-majali - Speech of IEEE by Dr. Mousa Al-Akhras, IEEE Jordan Section Chair - Speech of Representative of the international partners and attendees by Prof. Bryan W. Scotney Principal investigator of British Telecom Ireland innovation Centre 	<p>Download ICIT App For live Translation and more</p> 
11:00 – 11:30	Coffee Break	Next to Ali Al-Qirem Auditorium (Main Theater)
11:30 – 15:00 (Including 15 min. Coffee Break)	<p>Industrial Workshop <i>"From Innovation research to innovation technologies in the real world"</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> - Prof. John Davies - Prof. Lisa Perkins - Dr. Andrew Reeves - Dr. Cliona O'Boyle - Mr. Hussam Hourani 	<p>Ali Al-Qirem Auditorium (Main Theater)</p> <p>More Info.</p> 
15:00 – 16:00	Lunch	University Central Restaurant


Day 2 – Wednesday 28/5/2025

9:00 – 11:00	Track	AI & Data Science Session 1	PROMISE Workshop	Cyber Security Session 1	Innovation Technologies Session 1	Faculty of Science and IT
	Room	9301	9302	9349	9361	
11:00 – 11:15	Coffee Break					Faculty of Science and IT (Panorama Hall)
11:15 – 11:45	Keynote Speech: “Transforming Productivity in Telecommunications with AI” By: Prof. Paul O’Brien, Ulster University and Compton Innovation, UK					Faculty of Science and IT Azmi Al-Madi Hall (9361) More Info. 
11:45 – 12:15	Keynote Speech: “AI-enabled Customer Service Analytics in the Telecoms Industry” By: Prof. Bryan W. Scotney, Professor of Informatics, Ulster University Principal Investigator, BT Ireland Innovation Centre, UK					
12:15 – 12:45	Keynote Speech: “Architectures and systems for eHealth monitoring” By: Prof. Jaime Lloret Mauri, Polytechnic University of Valencia, València, Spain					
12:45 – 13:00	Coffee Break					
13:00 – 15:00	Track	AI & Data Science Session 2	Software Engineering Session 1	Math Session 1	CE MM Session 1	Faculty of Science and IT
	Room	9301	9302	9349	9361	
15:00 – 16:00	Lunch					University Central Restaurant
20:00 – 22:00	Gala Dinner					


Day 3 – Thursday 29/5/2025

9:00 – 10:30	Track	AI & Data Science Session 3	Math Session 2	Cyber Security Session 2	Innovation Technologies Session 2	Faculty of Science and IT
	Room	9301	9302	9349	9361	
10:30 - 11:00	Coffee Break					Faculty of Science and IT (Panorama Hall)
11:00 – 12:30	Track	AI & Data Science Session 4		Innovation Technologies Session 2		Faculty of Science and IT
	Room	9301		9361		
12:30 – 13:00	Closing Session					Faculty of Science and IT Azmi Al-Madi Hall (9361)
13:00 - 14:00	Lunch					University Central Restaurant

Day 4 – Friday 30/5/2025

7:00 – 23:00	Social Activities					To join us 
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Online Sessions – Monday 26/5/2025

Online Session 1 - 10:00–12:00	https://zuj-edu.zoom.us/j/93804568826	
Session Chair: Dr. Adnan Rawashdeh		

Author(s)	Paper Title
Rajanbir Singh Tucker	Real-Time Detection and Mitigation of GPS Spoofing in UAV Systems
Rajanbir Singh Tucker	A Study of Security Threats in IoT Network Layer using MQTT and TLS
Mark Angelo Mercado	Development of Industrial Machine Temperature Monitoring System for Semiconductor Company A
Abdinasir Hirsi	A Survey of Supervised, Unsupervised, and Ensemble Learning Approaches for DDoS Detection in SDN
Oliver Medina	Development of an Examination Checker using OMR for Multiple Choice Test Evaluator in National University
Sukruthi Sanampudi	Hybrid Crime Data-driven Route Optimization System for Safer Urban Navigation
Vanha Tran	Celebrity Hairstyle Recommendation System with Hairstyle Transfer
Sunshine Casido	Tree-Based Machine Learning Models for Phishing Email Detection

Online Session 2 - 10:00–12:00	https://zuj-edu.zoom.us/j/92286658647	
Session Chair: Dr. Sohair Alhakeem		

Author(s)	Paper Title
Misha Fakhar	Image Similarity Assessment Using Node Degree Distribution
Yasmin Alhowail	Enhancing Project Selection Process Via Machine Learning
Lena Alqahtani	OTuHunt: An Aggregated Threat Hunting & Intelligence Platform for OT/ICS Environment and MSSP Services
Nouf Alamoudi	Detection of Adversarial Evasion Attack on AI Model Running on IoT Devices
Ishtiaque Mahmood	AzureIQ-RAG: Hybrid RAG System for Automated Information Retrieval and Semantic Query Answering Using Azure AI
Virendra Gawande	AI and Blockchain: Transforming Data Security in Higher Education Institutions
Nadia Abdulsattar	Pneumonia Classification from X-ray Images with Convolutional Neural Network

Online Session 3 - 18:00–19:00	https://zuj-edu.zoom.us/j/97387090967	
Session Chair: Dr. Seraj Fayyad		

Author(s)	Paper Title
Don Roosan	Harnessing Quantum Gradient Machine Learning to Decode Subtelomeric Methylation in Telomere Maintenance Pathways
Sibaram Prasad Panda	Securing 5G Critical Interfaces: A Zero Trust Approach for Next-Generation Network Resilience
Haidar Jabbar	Securing Smart Supply Chains with Adaptive AI Agents: A Virtual Simulation Framework

Day 2: Wednesday 28/5/2025

Session: AI & Data Science Session 1		Time: 9:00 – 11:00
Session Chair: Dr. Andrew Reeves and Dr. Ala' Alzoubi		Place: 9301
Track	Paper Title	Author(s)
AI & Data Science	Advanced Deep Learning Techniques for Accurate Lung Cancer Detection and Classification	Mobarak Abumohsen, Enrique Costa-Montenegro, Silvia García-Méndez, Amani Owda and Majdi Owda
AI & Data Science	Robustness of Question Answering Systems in the Biomedical Domain: a study of the BioASQ dataset	Andrew Reeves and Hang Dong
AI & Data Science	Addressing Class Imbalance in Arabic Medical Questions using Ensembles and SMOTE	Bushra Smadi, Bassam Hammo and Hossam Faris
AI & Data Science	AI-Driven Feature Selection for Enhanced Heart Disease Prediction	Ameera Jaradat, Salem Alhatamleh, Mohammad Amin and Hatem Malkawi
AI & Data Science	SAHDA: A Semantic-Aware Hybrid Approach for Arabic Spell Checking with Domain Adaptation	Mossab Ibrahim, Pablo Gervás and Gonzalo Mendez
AI & Data Science	Arabic News Text Summarization: An Extractive Technique	Iyas Qaddara, Enas Naffar, Abdallah Hyassat, Yousef Alraban'Ah, Amneh Kenana and Mosleh Abualhaj
AI & Data Science	Real-Time Detection and Analysis of Facial Movement Disorders Using MediaPipe and OpenCV: A Streamlit-Based Framework	Noura Abulail, Amani Owda and Majdi Owda
AI & Data Science	A Deep Learning Approach to Predict User Experience Writing Faults in Mobile Applications' Interfaces	Emad Shawakfa, Majd Al-Zahrave and Rami Malkawi

Session: PROMISE WORKSHOP		Time: 9:00 – 11:00
Session Chair: Dr. Zeeshan Tariq, Prof. Sally McClean		Place: 9302
Track	Paper Title	Author(s)
PROMISE Workshop	AI in Employee Performance Management: Process Mining for Enhancing Productivity and Growth	Maqsood Mahmood, Ghayur Ahmad and Zahra Afridi
PROMISE Workshop	Analyzing the Impact of COVID-19 on Gas Demand Markets: A Process Analytics Perspective	Syed Arshad Raza, Atiq W. Siddiqui and Zeeshan Tariq
PROMISE Workshop	BalancedCL: A Balanced Contrastive Learning Framework for Process Mining with Multi-Head	Bilal Ahmed Lodhi, Zeeshan Tariq and Hanif Ullah
PROMISE Workshop	Enhancing Process Mining on Sparse Event Logs: A Simulation-Driven Academic Case Study	Towfeeq Fairooz, Aleeha Iftikhar, Zeeshan Tariq, Sally McClean and Ian McChesney
PROMISE Workshop	Integrating IT Infrastructure Metrics into Business Process Mining: A Telecommunications Industry Case Study	Zhi Chen, Sally McClean, Zeeshan Tariq, Nektarios Georgalas and Aadeshola Adefila
PROMISE Workshop	Process Duration Modeling and Concept Drift Detection using Phase-Type Distributions	Dongwei Wang, Sally McClean, Ian McChesney and Zeeshan Tariq

Session: Cyber Security Session 1		Time: 9:00 – 11:00
Session Chair: Dr. Ibrahim Mishal and Dr. Seraj Fayyad		Place: 9349
Track	Paper Title	Author(s)
Cyber Security	A Novel Genetic Algorithm-Optimized Selective Encryption for Enhanced Privacy in Medical Imaging	Rahmeh Ibrahim and Ashraf Qaddomi
Cyber Security	Cloud Services Cyberattacks: Most Infectious Viruses and Method of Infections	Khaled M. Musa and Mohammad Abdallah
Cyber Security	Enhancing Digital Investigation: The Role of Generative AI(ChatGPT) in Evidence Identification and Analysis in Digital Forensic	Marah Hawa, Majdi Owda and Amani Owda
Cyber Security	IoT Medical Network Security System Based Explainable AI Model	Abdallah Altrad
Cyber Security	Machine Learning Approach to Detect Black-Hole Attack over MANETs	Anas Ali Akasasbeh
Cyber Security	Penetration Testing of a Unified Merchant Portal: Systemic Vulnerabilities and Compliance-Centric Mitigation	Ahmad Al-Omari
Cyber Security	IoT Cybersecurity Policies: A Comparative Analysis	Gana Sawalhi, Bisan Nasser and Mais Khatib

Session: Innovation Technologies Session 1		Time: 9:00 – 11:00
Session Chair: Dr. Mohammad Lafi and Dr. Farhan Abdel Fattah		Place: 9361
Track	Paper Title	Author(s)
Innov_Tech	Information Dissemination Modeling for Connected Autonomous Vehicles (CAVs) at Urban Intersections Using Percolation Approach	Ala Alobeideyen
Innov_Tech	Power Optimization Urban Logistics with Autonomous Delivery Robots	Irene Izco, Adrian Serrano-Hernandez and Javier Faulin Fajardo
Innov_Tech	Towards Robust SEA Detection: Leveraging Model Diversity and Randomization Against Adversarial Attacks	Insaf Kraidia and Samir Brahim Belhaouari
Innov_Tech	Arabic Email Spam Detection Using Machine Learning and Deep Learning: A Comparative Study	Ghassan Kanaan, Motaz Zghoul, Ghazi Kanaan, Ala' Al-Zoubi and Tarek Kanaan
Innov_Tech	Beyond One-Size-Fits-All: Comparing and Selecting Regression Metrics for Robust Model Assessment	Yousef Jaradat, Mohammad Alia, Mohammad Masoud, Ahmad Manasrah, Ismael Jannoud and Omar Alheyasat
Innov_Tech	Detecting double-spending attack in Blockchain Networks using k-nearest neighbor algorithm	Farhan Abdel Fattah, Khalid Farhan and Seraj Fayyad
Innov_Tech	Evaluating the Economic Impact of On-Grid and Off-Grid Solar PV Systems in Homes	Ahmad Manasrah, Nezar Qudah, Yousef Jaradat, Mohammad Masoud and Mohammed Jaradat

Session: AI & Data Science Session 2		Time: 13:00 – 15:00
Session Chair: Dr. Jawad Alkhateeb and Dr. Ibrahim Atoum		Place: 9301
Track	Paper Title	Author(s)
AI & Data Science	Characteristics-Based Sampling Technique for Highly Imbalanced Large Scale Datasets	Balqees Aldabaybah and Ali Rodan
AI & Data Science	Comparison of ML Methods for Analyzing Scaffolding Behavior: A Case Study on Safety and Multimodal Results	Mohamad Al Omari, Eslahi Mojtaba, Amine Ammar, Rani El Meouche, Laure Ducoulombier and Laurent Guillaumat
AI & Data Science	Customer Segmentation for Targeted Campaigns Using RFM Analysis and K-Means Clustering	Roa Baddad, Amani Owda and Majdi Owda
AI & Data Science	Deep Learning-Based Automated Diagnosis and Classification of Rice Leaf Diseases Using CNN Architectures for Sustainable Agriculture	Santhosh C S, Sharath Kumar R, Nisha P, Narendra Khatri, Harish Sharma and Bablu Kumar Singh
AI & Data Science	Evaluating Administrative Accountability for Artificial Intelligence Application Errors in Jordan: Legal and Ethical Implications	Mohmmad Almajali, Ala' Masarweh and Ihab Rayyan
AI & Data Science	A Novel Deep Learning Approach for Enhanced Ischemic Brain Stroke Detection from CT Images Using Deep Feature Extraction and Optimized Feature Selection	Ahmad Abumihsan, Majdi Owda, Amani Owda, Fathi Gasir, Mobarak Abumohsen and Lampros Stergioulas
AI & Data Science	GenoCGC: A Hybrid CNN and Graph-based Transformer Model for Multi-Task Genomic Sequence Classification	Anas Abu-Doleh
AI & Data Science	Holy Quran Reciter Classification and Recognition Using Convolutional Neural Network: A Deep Learning Approach	Jawad Alkhateeb and Rashiq Marie

Session: Software Engineering Session 1		Time: 13:00 – 15:00
Session Chair: Dr. Rana Yousef and Dr. Yousra Odeh		Place: 9302
Track	Paper Title	Author(s)
Software Engineering	A Heuristic-Based Approach for Classifying Functional and Non-functional Arabic Security Requirements	Baraa Khamayseh, Nabil Arman and Faisal Khamayseh
Software Engineering	A Phase-Based and Student-Centric Requirements Classification Framework for Software Engineering Education in the Metaverse	Yousra Odeh and Rana Yousef
Software Engineering	The Synergy of Cognitive Cities and Open Data in Advancing Sustainable Urban Mobility: A Case Study of Pamplona, Spain	Anas Al-Rahamneh and José Javier Astrain
Software Engineering	Agile Project Management Optimization with AI technology: Challenges and Impact	Marwa Hamza, Rehab Aburass, Mohammad Aburass and Tamara Jber

Software Engineering	AI for Software Project Management: Predicting Delivery Times & Resource Allocation	Ahmad Nabot, Feras Alnaimat, Issam Jebreen, Ahmad Al-Qerem and Ali Mohd Ali
Software Engineering	Energy Efficiency Optimization in the IoT using Whale Optimization Algorithm and Simulated Annealing	Ameen Shaheen, Ala'A Al-Shaikh, Abdallah Damra, Mohammad Al-Mousa, Sami Askar and Suha Afaneh
Software Engineering	Service Diversification and Employment Opportunities in a Rapidly Evolving Sector: Jordan as a Case Study	Jalal Kiswani and Mohammad Abdallah
Software Engineering	Toward Enhancing Outdoor Mobility Assistive Technologies for People with Vision Impairment: Experts' Perspective	Abeer Malkawi and Azrina Kamaruddin

Session: Mathematical Modeling and Analysis Session 1		Time: 13:00 – 15:00
Session Chair: Prof. Amjad Zraiqa and Dr. Iqbal Batiha		Place: 9349
Track	Paper Title	Author(s)
Math	A New Analytical Approach to Fractional Calculus via Mittag-Leffler Functions and the complex Sawi Transform	Amjed Zraiqa, Alaa Al-Wadi, Rania Saadeh, Alaa Al-Zboon, Iqbal Jebri and Ahmad Qazza
Math	The Degree of Awareness of Engineering, Science and Mathematics Teachers of The Importance of Using IoT Technology In The Educational	Hamzeh Alassaf, Fadi Bani Ahmad and Haitham Qawaqneh
Math	An Analytical Approach To Fixed Point Results For Sehgal Guseman Contraction In Extended B-Metric Spaces	Haitham Qawaqneh and Habes Alsamir
Math	Analytical Solution of a Modified KdV Equation via Atomic Decomposition	Hamza Alzaareer and Waseem Alshanti
Math	Characterization of some surfaces and their Properties in the Euclidean 3-Space	Hassan Al-Zoubi, Mais Jaradat, Mohammad Al-Kafaween, Hamza Hzaen and Bayan Tayem
Math	Complex Sawi Integral Transform And Some Applications	Waseem Al Mashaeh, Rania Saadeh and Iqbal Jebri
Math	Conformable Fractional Derivative of a Vector Field	Waseem Alshanti, Mamoun Abu Hammad, Hamza Alzaareer, Hassan Al-Zoubi and Ahmad Alshanti
Math	Control of Chaos in Memristive Systems Using Fractional Discrete Calculus	Iqbal Batiha, Louiza Diabi, Adel Ouannas, Iqbal H. Jebri, Jamal Oudetallah and Shaher Momani

Session: Computer Engineering & Multi Media Session 1		Time: 13:00 – 15:00
Session Chair: Dr. Mohammad Muhairat and Dr. Mustafa Al Rifaee		Place: 9361
Track	Paper Title	Author(s)
Cyber Security AI & Data Science CE MM	Temperature Forecasting for High-Temperature Data Centers: Enhancing Energy Efficiency Through Predictive Modeling	Safaa Hriez and Mohammad Hmidan
Cyber Security AI & Data Science CE MM	The impact of instance reduction on classification process in intrusion detection system	Safaa Yousef Saleh Al-Adwan, Salwani Abdullah, Mohammed Alweshah and Wandeep Kaur
CE MM	Dubljli: AI-Based Adaptive and Multi-Lingual Video Dubbing System	Mohammad Abdel-Majeed, Ahmad Maraqa, Moath Abu-Mahmoud, Othman Milad and Shorouq Alawawdeh
Cyber Security AI & Data Science CE MM	The Role of 360-Degree Photos in Enhancing User Experience and Site Documentation on Google Maps	Mousa Salah, Mohammad Abdallah, Mustafa Al Rifaee, Basem Alokush and Khaled Jaber
CE MM	Optimizing Multimodal Feature Alignment for Enhanced Text-to-Video Retrieval Performance	Ahmad al-Qerem and Feras Alnaimat, Nasim Matar
Cyber Security AI & Data Science CE MM	Towards Using Ontology-Based Systems for Explainable Medical Diagnosis in Nutrition Domain	Duha Al-Darras, Bashar Al-Shboul and Nadim Obeid
CE MM	STAV360: A Dataset for Subjective Tile-based Assessment of 360° Videos	Moatasim Mahmoud, Stamatia Rizou, Andreas Panayides, Pavlos Lazaridis, George Karagiannidis, Nikolaos Kantartzis and Zaharias Zaharis
CE MM	ChatGPT Vs. DeepSeek: A Comparative Analysis of AI Models for Enhancing Virtual Reality Experiences	Khalid Jaber, Mousa Salah, Mustafa Al Rifaee, Naji Alqbailat, Bassem Issa and Ashour Abuelzeet

Day 3: Thursday 29/5/2025

Session: AI & Data Science Session 3		Time: 9:00 – 10:30
Session Chair: Dr. Janna Emeishat and Dr. Dara Aqel		Place: 9301
Track	Paper Title	Author(s)
AI & Data Science	Hybrid Deep Learning Framework for Estimating the Occurrence Rate of the Inverse Exponential Process: A Comparative Analysis of LSTM, ANN, and Traditional Methods	Adel S. Hussain, Zedan Z. Mashikhin, Naaman Omar Yaseen, Ma'Mon Abu Hammad, Emad Az-Zo'Bi and Mohammad A. Tashtoush
AI & Data Science	A Comprehensive Survey on Intrusion Detection Systems in IoT: Challenges and Future Directions	Ala' M. Al-Zoubi, Katrina Sundus and Tarek Kanan
AI & Data Science	A Dataset of Media Articles on ChatGPT	Ahmad Abdel-Hafez and Areej Yousef
AI & Data Science	Exploring SBC with Kinect And machine Learning for Indoor Mobile Robot Design and Monitoring	Mohamed Fezari, Ali Al Dahoud, Mohamed Tahar Gossa Tahar Gossa, Mohamed Akram Bensaid and Ahmad Al-Dahoud
AI & Data Science	A Transformer-Based Deep Learning Model for Arabic Image Captioning	Israa Albadarneh, Prof.Bassam Hammo and Prof.Omar Alkadi
AI & Data Science	A Two-Stage Hierarchical Skin Lesion Classification Using Transfer Learning	Ghaith Al-Shawabkeh, Mohammad Abdalaziz and Amjed Al-Mousa
AI & Data Science	Evaluating the Performance of Three HIS-based Pansharpening Techniques	Ouahab Abdelwhab and Hautia Cherifa

Session: Mathematical Modeling and Analysis Session 2		Time: 9:00 – 10:30
Session Chair: Prof. Iqbal Jebril and Dr. Hamza Alzaareer		Place: 9302
Track	Paper Title	Author(s)
Math	Distribution of Renyi Entropy from Nakagami Distribution Sample	Rama Rasheed, Azeza Al Abdallah and Andaleeb M.Abu Kamel
Math	Fractional Bernoulli Equation with Ujlayan-Dixit operator	Amer Dababneh, Hamzah Al-Khawaldeh, Iqbal Jebril, Iqbal Batiha and Shaher Momani
Math	Fuzzy control of processes with long transportation delay – A comparative study	Hisham Hussein and Zaid Al Muala
Math	Geometric Hyperplane Intersection Solver: A Matrix-Inversion-Free Framework with Quantum-Neuroevolutionary Enhancements	Tawfiq Jallad and Mamon Abu Hammad
Math	Impact of Aboodh Power Series Algorithm for Integral Equations	Adnan Hnaif, Ahmad Qazza, Hamed Fawareh, Faid Fawareh, Rania Saadeh and Belal Zaqibeh
Math	Incommensurate Fractional Computer Virus System: Control and Simulation	Iqbal Jebril, Khadija Dibi, Imane Zoua, Adel Ouannas, Amina-Aicha Khennaoui and Iqbal M. Batiha
Math	Synchronization of Fractional Discrete Memristives Models	Iqbal Jebril, Louiza Diabi, Adel Ouannas, Iqbal Batiha, Wasim Audeh and Shaher Momani
Math	A Novel Approach for Solving Space Fractional Heat Equations with Variable Coefficients Using the Crank-Nicolson Method	Reem Edwan

Session: Cyber Security Session 2		Time: 9:00 – 10:30
Session Chair: Dr. Mahmoud Farfoura and Dr. Layla Albdour		Place: 9302
Track	Paper Title	Author(s)
Cyber Security	Image Encryption Using Circular-Shifting, Permutation Expansions and XOR	Ayman Abdalla, Qasem Makki and Ahmad Mazhar
Cyber Security	IoT Intrusion Detection System Using Crawler and Machine Learning	Layla Albdour and Ahmad Sharieh
CE MM	Enhancing Security and Reliability in IoT Smart Homes via Advanced Engineering Testing Methodologies	Tarek Kanaan, Ceselia Alyawanseh, Ghassan Kanaan and Nesreen Hamad
Cyber Security AI & Data Science CE MM	Schnorr-Based Authentication Framework for Secure Vehicle to Vehicle Communication	Adi El-Dalalmeh and Eman Abu Maria
Cyber Security	A Distributed Brute-Force Attack and Misleading Countermeasure for Securing ModbusTCP Implementations in PLCs	Mohammad Abdul Jawad, Mohammad Z. Masoud, Álvaro Álesanco and José García
Cyber Security	Utilizing Deep Learning, Ensemble Learning, and Transfer Learning for Enhancing Security in Internet of Things Networks through Intrusion Detection Systems	Yahya Alhaj Maz, Mohammed Anbar, Selvakumar Manickam and Mosleh M. Abualhaj

Session: AI & Data Science Session 4		Time: 9:00 – 10:30
Session Chair: Dr. Wael Alzyadat and Dr. Ameen Shaheen		Place: 9361
Track	Paper Title	Author(s)
AI & Data Science	Multi-crackNet: A Deep Learning Framework for Multi-Class Crack Detection in Concrete Structures	Abdulrahman Alkannad, Ahmad Al Smadi and Wael Alzyadat
AI & Data Science	Parameters Estimation in a Non-Homogeneous Poisson Process with Fuzzy Data through a Modified Fuzzy Maximum Likelihood Approach Using Artificial Intelligence	Muthanna Subhi Sulaiman, Adel Sufyan, Rana Noaman Abbas, Ma'Mon Abu Hammad, Emad Az-Zo'Bi and Mohammad A. Tashtoush
AI & Data Science	Predicting DC Motor Speed Using Acoustic Analysis: A Comparison of Neural Networks and Convolutional Neural Networks	Mohamamd Masoud, Nabeel Abu Shaban and Ali Mahmoud
AI & Data Science	Artificial intelligence innovations and strategic insights or a smart retail transformation	Firas Omar, Shadi Nashwan, Issam Jebreen and Ahmad Al-Qerem
AI & Data Science	Leveraging Feature Selection and Explainable AI for Effective Autism Screening	Qusai Shambour, Mohd Khaled Shambour and Yousef Alraba'Nah
AI & Data Science	Medical Image Analysis for Brain Tumor Classification Using CNN Architecture	Alaa Sheta, Walaa H. Elashmawi, Abdel Karim Baareh, Peter Rausch and Emad S. Othman
AI & Data Science	Evaluating Machine Learning Classifiers for Detecting Distributed Denial of Service Attacks	Omar Almomani, Adeeb Alsaaidah, Mohammed Amin Almaiah, Abdullah Alzaqebah, Mosleh M. Abualhaj and Wael Jumah Alzyadat

Session: Innovation Technologies Session 2		Time: 11:00 – 12:30
Session Chair: Dr. Thamer Rawashdeh and Dr. Adnan Rawashdeh		Place: 9361
Track	Paper Title	Author(s)
Innov_Tech	Smartphone Communication Strategies for Legacy Industrial Systems: A Study of ModbusTCP and Local Server Solutions	Mohamamd Masoud, Rashed Alsakarnah, Yousef Jaradat, Ismael Jannblanced oud and Mais Alhawawsheh
Innov_Tech	The Role of Large Language Models in Personalized Obesity Management: Opportunities and Challenges	Qasem Abdallah, Farah Al-Daghistani, Hussam Mizher, Mohammad Abdallah and Asad A. Abukhalil
AI & Data Science	Knowledge, Attitude, and Practice Toward AI Use Among Health Profession Students in a Malaysian Public University	Qasem Abdallah, Anis Faeza Faisal, Hussam Mizher, Syahrir Zaini, and Mohammad Abdallah
AI DS	The Impact of AI on Women's Roles in the Workplace: A Legal Gender Perspective	Laila Barqawi and Sewar Al-Rashdan
Software Engineering	Machine Learning Model for Fault Prediction in Object-Oriented Systems	Mohammed Lafi, Khalid Farhan and Ahmad Abusukhon
Software Engineering	Modern Architectural Patterns for Scalable Learning Management Systems: Integrating Microservices, Client-Server, and Database Management	Ceselia Alyawanseh, Renad Alwahsh and Ameen Shaheen
Software Engineering	AI-Based Program Slicing: Techniques, Tools, and Comparative Analysis	Mohammad Abdallah, Amir Ngah, Anas Al-Rahamneh and Daniel Staegemann

Session: AI & Data Science Session 5		Time: 11:00 – 12:30
Session Chair: Dr. Salahiddin Altahat and Dr. Omran Salem		Place: 9361
Track	Paper Title	Author(s)
AI & Data Science	Technical and Ethical Strategies to Prevent Machine Learning Models from Exploiting Personally Identifiable Information (PII)	Rand Albustanji, Ahmad Alkhatib and Ameen Shaheen
AI & Data Science	Agentic AI for Healthcare: Solutions to Intelligent Patient Care	Shadi Alzubi, Muder Almiani and Yaser Jararweh
AI & Data Science	Predicting Breast Cancer Recurrence Using Machine Learning Models: A Comparative Study	Katrina Sundus, Ala' Al-Zoubi, Eyad Hailat and Bassam Hammo
AI & Data Science	A Comparative Study of Machine Learning Algorithms for Credit Card Fraud Detection	Mohammad Aburass, Rehab Aburass and Marwa Hamza
Software Engineering	Evaluating the Impact of Dataset Size on the Accuracy of Arabic Software Requirements Classification Using AraBERT	Reem Amro, Ahmad Althunibat and Bilal Hawashin
Innov_Tech	Improving the Classification of Arabic Tweet Sentiment Using Word Embedding Models	Ghassan Kanaan, Mariam Dabaeen, Raed K. Kanaan, Ghazi Kanaan, Salahiddin Altahat and Ibrahim Atoum
Cyber Security	Evaluating the effectiveness of Cybersecurity Training: Key Elements, Best Strategies, and Future Prospects	Omran Salem, Marwa Hamza and Akram Zek

Session: Closing Session		Time: 12:30 – 13:00
Session Chair: Prof. Aysh Alhroob – Conference General Chair		Place: Faculty of Science and IT (Room- 9361)



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