



ACIT 2025

26th International Arab Conference on Information Technology

16-18 December 2025

Arab Academy for Science, Technology & Maritime Transport

Alexandria- Egypt

Under the Auspices of

H.E. Dr. Ahmed Abouel Gheit

Secretary-General, League of Arab States

Conference Program



ACIT International



Conference Day 1 Tuesday Dec.16

9:00 - 10:30	Registration (📍 AASTMT Presidency)					
10:30 -12:00	Opening Session and Welcoming Speeches (📍 AASTMT Presidency)					
12:00 -12:30	Coffee Break (📍 AASTMT Presidency)					
12:30 -14:00	Keynote Speeches (📍 AASTMT Presidency)					
14:00 -15:00	Lunch (📍 AASTMT Main Restaurant)					
15:00 -16:30	Session 1A (Virtual)	Session 1B (Virtual)	Session 1C (Virtual)	Session 1D (Virtual)	Session 1E (Virtual)	CCIS General Committee Meeting (📍 AASTMT Presidency)

Conference Day 2 Wednesday Dec.17

9:00 -11:00	Session 2A (Physical - 📍 El Farsi Hall)	Session 2B (Physical - 📍 303 Hall)	Session 2C (Virtual)	Session 2D (Virtual)	Session 2E (Virtual)	
11:00 -11:30	Coffee Break (📍 By Farsi Hall)					
11:30 -13:30	Session 3A (Physical - 📍 El Farsi Hall)	Session 3B (Physical - 📍 303 Hall)	Session 3C (Virtual)	Session 3D (Virtual)	Session 3E (Virtual)	ACIT Steering Committee Meeting (📍 AASTMT Presidency)
13:30 -14:30	Lunch (📍 AASTMT Restaurant)					
14:30 -16:30	Session 4A (Physical - 📍 El Farsi Hall)	Session 4B (Physical - 📍 303 Hall)	Session 4C (Virtual)	Session 4D (Virtual)	Session 4E (Virtual)	

Conference Day 3 Thursday Dec.18

Conference Trip

 Click Session Names for Details - Zoom Sessions Will be Provided

Conference Day 1 Tuesday Dec.16

10:30 - 12:00 Opening Session and Welcoming Speeches

<https://zoom.us/j/96995197282> Meeting ID: 969 9519 7282 -Passcode: 082244

Prof. Dr. Ayman Abdel-Hamid

Dean – College of Computing and Information Technology (Alexandria)
Arab Academy for Science, Technology, and Maritime Transport - Egypt
ACIT 2025 Conference Coordinator

Dr. Hayel Khafaga

Dean – College of Information Technology
Zarqa University – Jordan
Secretary-General – International Arab Conference on Information Technology (ACIT)

Prof. Dr. Ahmed Madian

IEEE Egypt Section Chair
Nile University, Egypt

H.E. Prof. Dr. Nidal Alramahy

President – Zarqa University - Jordan

H.E. Dr. Mahmoud Abou Shaireh

CEO – Zarqa Company for Education and Investment – Jordan

H.E. Prof. Dr. Amr Adly

President – Egypt-Japan University of Science and Technology – Egypt

H.E. Prof. Dr. Gina El-Feky

President – Academy of Scientific Research and Technology - Egypt

H.E. Prof. Dr. Ismail Abdel Ghafar Ismail Farag

President – Arab Academy for Science, Technology, and Maritime Transport – Egypt
ACIT 2025 Conference Chair

Conference Day 1 Tuesday Dec.16

12:30 - 14:00 Keynote Speeches

<https://zoom.us/j/96995197282> Meeting ID: 969 9519 7282 -Passcode: 082244

Session Chairs: Prof. Dr. Emad Abuelrub and Prof. Dr. Ayman Adel Abdel-Hamid

12:30 - 13:15

"AI in Cybersecurity- Balancing Innovation and Resilience while Bridging the Cybersecurity Skill Gap"

Eng. Kamal Kamel

Director of Cyber Security, Cloud & IP Engineering

Orange, Egypt



13:15 - 14:00

When Cars Become Computers:

How AI, ADAS, and SDV are redefining Automotive R&D

Eng. Kareem Aly Morsy

VP of Automotive Services

Brightskies, Egypt



Session 1A (Virtual) - AI in Biomedical Applications

<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)

Session Chairs: Prof. Dr. Mohamed Kholief

A Framework for Effective Prediction and Classification of Breast Cancer using Optimal Deep Enhanced Hybrid Classifier with XAI Model

Swati Sah (SET Sharda University, India), Rejwan Bin Sulaiman (Northumbria University, UK), Saba Abualhija (Princes Sumaya University, Jordan), Mohommad Aljaidi (Zarqa University, Jordan), Mohammad Ahmad (University of Bedfordshire, UK), Ghassan Samara and Raed Alazaidah (Zarqa University, Jordan)

Explainable Deep Transfer Learning for Multi-Class Knee Osteoporosis Diagnosis Using Grad-CAM and DenseNet121

Ahmad Aburomman (Zarqa University, Jordan), Khaled Hamad, Suhaila Abuowaida and Adai Al-Momani (Al al-Bayt University, Jordan), Raed Al-Azaidah and Omar Alidmat (Zarqa University, Jordan)

Automated Brain Tumor Classification using ConvNeXt-Tiny and Colorized MRI: A Deep Learning Approach with Enhanced Interpretability

Mohammad Arabiat (Zarqa University, Jordan), Khaled Hamad, Rayan Abuqaddom and Lana Alissa (Al al-Bayt University, Jordan), Nawaf Alshdaifat (The Hashemite University, Jordan), Suhaila Abuowaida (Al al-Bayt University, Jordan) and Ahmad Aburomman (Zarqa University, Jordan)

XCAN: A Lightweight Convolutional Neural Network for Efficient Lung Disease Detection from Chest X-rays

Saed Alqaraleh (Mutah University, Jordan), Baraa Alsayed Ahmad and Zeynep Ebrar Ozer (Hasan Kalyoncu University, Turkiye)

Hybrid Deep Feature Extraction and Machine Learning for Brain Tumor Classification: A Comparative Analysis

Yusra Al-Najjar and Amer Rawash (Zarqa University, Jordan)

Explainable Deep Learning for Melanoma Detection: Enhancing Recall in Dermoscopic Image Classification

Musab Iqtait and Anas M. AL-Oraiqat (Zarqa University, Jordan), Yassin M. Y. Hasan (Assiut University, Egypt), Sattam Almatarneh, Jafar Ababneh and Sami Askar (Zarqa University, Jordan), and Oleksandr Drieiev (Central Ukrainian National Technical University, Ukraine)

ILD-SwinViT: Hybrid Transformer Networks for Interstitial Lung Disease Diagnosis from HRCT Images

Wafa Tlili and Raouia Mokni (University of Sfax, Tunisia)

Brain Stroke Classification Using YOLOv8

Mahmoud Elhussieni, Sleiman Alhajj and Lama Alhajj (Istanbul Medipol University, Turkey), Kashfia Sailunaz (Dalhousie University, Canada), Mehmet Kaya (Firat University, Elazig, Turkey), M. Kemal Özdemir (Istanbul Medipol University, Turkey), Jon Rokne (University of Calgary, Canada) and Reda Alhajj (Istanbul Medipol University, Turkey)

Comparative Study of Deep Learning Techniques to Detect Malignant Growth in the Human Brain

Muath AlShaikh, Kenan Hassan, Razan Habrah and Suhib Bani Melhem (Al Ain University, UAE)

Session 1B (Virtual) - AI and Health Informatics

<https://zoom.us/j/94534668225> (Meeting ID: 945 3466 8225 - Passcode: 758606)

Session Chairs: Prof. Dr. Mohamed Shaheen

Proposed Smartwatch for Early detection of Reptile Bites During Sleep: VenomAlert

Khalid AZNAG, Khayya El Kharrachi and Ahmed El Oirrak (Ayyad University, Morocco)

Session 1B (Virtual) - AI and Health Informatics (Cont.) https://zoom.us/j/94534668225 (Meeting ID: 945 3466 8225 - Passcode: 758606)	
Session Chairs: Prof. Dr. Mohamed Shaheen	
Innovative Machine Learning Approaches for Detecting ADHD Using Optimized Feature-Reduced Datasets Hazem Jihad Badarneh, Adnan M. Al-Smadi, Raed Alazaidah, Anwar Katrawi, Rahaf Alsawi and Lana Yasin Al Aesa (Zarqa University, Jordan)	
Deep Learning Framework for Early Alzheimers Detection in Arabic Speech Enhanced by Feature Engineering Hanein O MohmedShareif, Abdullah M. Elmangoush, Ayyah A. Fadhl and Malak A. Ali (Libyan International University, Libya)	
Explainable Deep Learning for Autism Diagnosis from RNA-Seq Data Using Game-Theoretic Feature Analysis Tasaddi M. Hanoun and Asaad N.Hashim (University of kufa,,Iraq)	
Advanced Deeplearning to Detection Autsim Tasaddi M. Hanoun and Asaad N.Hashim (University of kufa,,Iraq)	
Evaluating and Enhancing Mammography Data Management through the Hakeem Electronic Health Recording System: A Case Study in Digital Health Transformation in Jordan Sanaa Hussein Alnaimat, Norhashimah Mohd Norsuddin and Iza Nurzawani Che Isa (Universiti Kebangsaan Malaysia, Malaysia), Marwan Ahmed Al-Shipli (Al Al-Bayt University, Jordan), Ahmad. A. Abushattal (Al-Hussein Bin Talal University, Jordan) and Sattam AlMatarneh(Zarqa University, Jordan)	
Diagnosis Model for Heart Disease based on Whale Optimization Algorithm and K Nearest Neighbour classifier Hamouda Chantar, Mohammed Shantal and Almahdi Alshareef (UniversitySebha, Libya)	
Digital Health and the Internet of Things in Huntington’s Disease Diagnosis and Management: A Systematic Review Leen Alhassan and Osama Hammad (Jordan University of Science and Technology, Jordan), Hanan Hirzallah (Princess Sumaya University for Technology, Jordan), Yousef Alghzawi (Jordan University of Science and Technology, Jordan), Layla Amaireh and Faten Kharbat (Al Ain University, Jordan)	
Classifying Snoring Sounds for Acoustic Detection of Sleep Apnea Mohammad Al-Hattab and Hussein Ayman Odeh (Al Ain University, UAE)	
Session 1C (Virtual) - Network Security https://zoom.us/j/92640099498 (Meeting ID: 926 4009 9498 - Passcode: 571118)	
Session Chairs: Prof. Dr. Hesham Elzouka	
A Comprehensive Comparison of Machine Learning Approaches to Detect Botnet Phishing Attacks Raed Alazaidah, Beesan Al-haj and Ala'a Al-Shaikh (Zarqa University, Jordan), Suhaila Abuowaida (Al al Bayt University, Jordan), Ghassan Samara and Adai Almomani (Zarqa University, Jordan)	
Cybersecurity Attacks Detection Using Machine Learning: Ensemble Learning Rahaf Alsawi, Raed Alazaidah, Hayel Khafajeh, Ali Abu Zaid, Ghassan Samara and Mohammed Aljaidi (Zarqa University, Jordan)	
Detection of Multi-Vector DDoS Attack based on Machine Learning Over A Unified Real-Time Network Security Framework Dena Abu Laila (University of Business and Technology, KSA)	
Comprehensive Analysis and Detection of Network Level Session Hijacking Attacks Across TCP/ IP and UDP Protocols Dena Abu Laila (Zarqa University, Jordan)	

Session 1C (Virtual) - Network Security (cont.)

<https://zoom.us/j/92640099498> (Meeting ID: 926 4009 9498 - Passcode: 571118)

Session Chairs: Prof. Dr. Hesham Elzouka

Lightweight Entropy-Based Multi-Attack Detection Framework for Software-Defined Networks (SDN)

Lina Ayoub and Mohammad Shurman (Jordan University of Science and Technology, Jordan)

Lightweight LSTM-Based Detection of CoAP Resource Exhaustion Attacks in Constrained IoT Devices

Mahmoud Aljamal (Irbid National University, Jordan), Mohammad Aljaidi (Zarqa University, Jordan), Zaid Jawasreh (Irbid National University, Jordan), Rabia Emhamed Almamlook (Zarqa University, Jordan), Ayoub Alsarhan (The Hashemite University, Jordan), Ghassan Samara and Raed Alazaidah (Zarqa University, Jordan)

Assisted Framework for Advanced IoT Intrusion Detection

Zina Houhamdi (Al Ain University, UAE), Mohamed Raid Athamena (King's College London, UK) and Belkacem Athamena (Al Ain University, UAE)

Data Mining-Based Intrusion Detection for IoT Environments

Belkacem Athamena (Al Ain University, UAE), Mohamed Raid Athamena (King's College London, UK) and Zina Houhamdi (Al Ain University, UAE)

Lightweight Machine Learning Approaches for Intrusion Detection in LoT environments

Waleed Amer (Zarqa University, Jordan), Marwa Abdel Sattar Jaradat (Jordan University of Science and Technology, Jordan), Hani Hamoud Alsharari, Suha Afaneh, Mohammad Rasmi Al-Mousa, Mahmoud Asassfeh and Sami Askar, Ghassan Samara (Zarqa University, Jordan)

Session 1D (Virtual) - IoT and Wireless Networks

<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)

Session Chairs: Dr. Mazen Elagamy

Reducing Power Consumption in Wireless Sensor Networks via Random Node Re-Clustering Based on the Modified LEACH-EA Protocol

Ghassan Samara, Raed Alazaidah and Mahmoud Odeh (Zarqa University, Jordan), Omar Isam Al Mrayat (Amman Arab University, Jordan), Mohammad Hassan and Mohammad Rasmi Al-Mousa (Zarqa University, Jordan), Hussain Mohammed Turki (University of Anbar, Iraq), Abedalhakeem Issa and Mohammed Aljaidi (Zarqa University, Jordan)

A Risk-Aware GMRE-ACO Framework for Energy-Efficient UAV Data Collection in Wireless Sensor Networks

Ghassan Samara and Raed Alazaidah (Zarqa University, Jordan), Ibrahim Obeidat (The Hashemite University, Jordan), Omar Isam Al Mrayat (Amman Arab University, Amman, Jordan), Mahmoud Odeh (Zarqa University, Jordan), Mais Haj Qasem (Amman Arab University, Jordan), Hayel Khafajeh and Mohammed Aljaidi (Zarqa University, Jordan) and Malik Jawarneh (Amman Arab University, Amman, Jordan)

FORTRESS: A Hybrid Fiber-RF Communication Protocol for Anti-Jamming Resilience in UAV Systems

Ghassan Samara, Mahmoud Odeh and Mohammad Rasmi Al-Mousa (Zarqa University, Jordan), Omar Isam AL Mrayat (Amman Arab University, Jordan), Mohammed Aljaidi (Zarqa University, Jordan), Mais Haj Qasem (Amman Arab University, Jordan), Raed Alazaidah and Alaa Bani-Bakr (Zarqa University, Jordan) and Malik Jawarneh (Amman Arab University, Jordan)

An Energy-Efficient Routing Approach for Wireless Sensor Networks Based on Hybrid Deep Reinforcement Learning and Metaheuristic Optimization

Mohanad Ali Meteab Al-Obaidi, Shajan Mohammed Mahdi, Yasmin Makki Mohialden and Nadia Mahmood Hussien (Mustansiriyah University, Iraq)

Enhanced Fuzzy Logic-Based Optimization Framework for IoT Deployments in Wireless Sensor Networks

Suhail Odeh (Bethlehem University, Palestine), Mahmoud Obaid (Arab American University, Palestine), Rafik Lasri (Abdelmalek Ess'aadi University, Morocco), Amir Bannoura (ithinx GmbH Cologne, Germany) and Murad Al Rajab (Abu Dhabi University, UAE)

Session 1D (Virtual) - IoT and Wireless Networks**(Cont.)**<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)**Session Chairs: Dr. Mazen Elagamy**

Enhancing Quality of Experience in Mobile Computing Challenges Solutions and Future Directions

Dana Al-Qatarneh and Abdallah Qusef (Princess Sumaya University for Technology, Jordan)

From Files to URLs: A Unified ML-based Vulnerability Scanner

Bayan Abu Shawar, Muath Alshaikh, Sajnin Sultana, Jasim Majid, Suhib Melhem and Majdi Sawalha (Al Ain University, UAE)**Session 1E (Virtual) - Software Engineering**<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)**Session Chairs: Prof. Dr. Walid Abdel Moez**

Development of a Web-based Document Management System for Quality Assurance Office of Earist Cavite Campus based on ISO/IEC 25010 Software Quality Assessment

Rowee M. Marfil, Apple M. Rapada, Catherine D. Dumpit, Ma. Lee De Los Reyes, Gerlyn M. Domingo and Melvin G. Eballe (Institute of Science and Technology, Cavite, Philippines)

Enhancing BITA in Higher Education with BPMTOGAF Framework: A Case Study

Salwa M. Elakeili, Naseem Alshareef and Abdelsalam M. Maatuk (University of Benghazi, Libya)

The Role of Artificial Intelligence in Enhancing Software Project Management of Electronic Health Records

Hamed Fawareh and Lara Al-Rbabah (Zarqa University, Jordan)

Improving Automated Assessment of Programming Exams via Context Window Management

Mohammad Taha and Mamoun Nawahdah (Birzeit University, Palestine)

Scenario-Driven Software Testing: Comparative Analysis of Manual and AI-Based Test Case Generation

Rawan Habarneh and Hamed Fawareh (Zarqa University, Jordan) and Ghadeer Albesani (Applied Science Private University, Jordan)

ContextPilot: Adaptive Open Source Software Onboarding

Mazen Al-Asali and Mohammad El-Ramly (Cairo University, Egypt)

Using LLMs for Writing ATL Model Transformation Code

Saqib Iqbal and Issam Al-Azzoni (Al Ain University, UAB)

High Performance for Fault Detection and Treatment System with Information Technology

Haitham A. Obaid and Mohanad A. Al-Askari (University of Anbar, Iraq), Mousa Bani Baker (University, Al Ain, UAE), Yousif Al Mashhadany (University of Anbar, Iraq), Takialddin Al Smadi (Jerash University, Jordan) and Qutaibah Althebyan (Al Ain University, UAE)

Conference Day 2 Wednesday Dec.17

Session 2A (Physical) - Cybersecurity and Distributed Systems

(El Farsi Hall-College of Engineering and Technology)

<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)

Session Chairs: Prof. Dr. Adnan Shaout and Prof. Dr. Ayman Adel Abdel-Hamid

Multi-Party Identity Verification Amongst Autonomous Hyperledger Aries Embedded Agents Using the Raft Consensus Algorithm

Adnan Shaout and Spencer White (The University of Michigan, USA)

Network Forensic Investigations and Machine Learning Techniques for Early Detection of Ransomware

Hamdi Abu-Helo and Mohammad M. N. Hamarsheh (Arab American University, Palestine) and Nur Izura Udzir (Universiti Putra Malaysia, Malaysia)

Comparative Analysis of WebEx and Microsoft Teams and Zoom and Google Meet in Terms of Features and Security

Ayman Ghaben (Amman Arab University, Jordan), Raed Alazaidah, Ghassan Samara, Alaa Bani-Bakr and Ala'a Al Sherideh (Zarqa University, Jordan) and Esraa Abu Elsoud (Applied Science University, Jordan)

Blockchain-Based Control of Financial Checks in Palestine Using Hyperledger Fabric

Suhail Odeh (Bethlehem University, Palestine), Mahmoud Obaid (Arab American University, Palestine), Nadine Abu Odeh, Saja Lahaleh and Sara Sulibe (Bethlehem University, Palestine)

Multi-Task Learning for GPS Spoofing and GNSS Meaconing Detection in UAV IoT Systems

Mohammad Aljaidi (Zarqa University, Jordan), Bashar Igried (The Hashemite University, Jordan), Mahmoud Aljamal (Irbid National University, Jordan), Ayoub Alsarhan (The Hashemite University, Jordan), Zaid Jawasreh (Irbid National University, Jordan), Ghassan Samara and Raed Alazaidah (Zarqa University, Jordan)

CNN-Guided Reversible Data Hiding in Encrypted Images

Ahmad T. Al-Taani (Arab Open University, Jordan) and Mohammad Alzu'bi (Yarmouk University, Jordan)

Medical Image Steganography through Learning-based Selection of Embedding Location

Ibrahim Ali Alnajjar, Alyaa Elsayed Amer, Rania Al Abdallah and Soliman Alkhatib (American University in the Emirates, UAB)

Session 2B (Physical) - AI and Health Informatics

(303 Hall-College of Engineering and Technology)

<https://zoom.us/j/94534668225> (Meeting ID: 945 3466 8225 - Passcode: 758606)

Session Chairs: Prof. Dr. Khaled Mahar and Prof. Dr. Qasem Alradaideh

Leveraging LLM-Based Few-Shot Learning for Clinical Decision Support in Alzheimer Detection

Hany Hanafy Mahmoud Said (AASTMT, Egypt)

AI-Driven MRI Classification of Alzheimer's Disease: A Transparent Pipeline with Systematic Preprocessing and Hybrid Model

Subhieh El-Salhi (The Hashemite University, Jordan), Mohammad Aljaidi (Zarqa University, Jordan), Amal Issam Alalami and Nadera Aljawabrah (The Hashemite University, Jordan), Khaled Moneef Jebriel (University of Jordan, Jordan) and Shrouq Amer Salameh (The Hashemite University, Jordan)

A Deep Learning Ensemble Framework for Accurate Peripheral Blood Cell Classification from Microscopic Image

Alaa A. Elagrody, Ahmed S. Eltrass and Hassan M. El-Kamchouchi (Alexandria University, Egypt)

Session 2B (Physical) - AI and Health Informatics (Cont.)

(303 Hall-College of Engineering and Technology)

<https://zoom.us/j/94534668225> (Meeting ID: 945 3466 8225 - Passcode: 758606)

Session Chairs: Prof. Dr. Khaled Mahar and Prof. Dr. Qasem Alradaideh

Machine Learning Models for Prediction of Early-Stage Alzheimer Disease

Abeer H. El Bakly and Walaa Afifi (Cairo University, Egypt)

Improved ASD Detection from Brain fMRI Using Fine-Tuned Transfer Learning on Pretrained Deep Convolutional Models

Fedia Bahloul (University of Sfax, Tunisia), Raouia Mokni (University of Gabes, Tunisia) and Monji Kherallah (University of Sfax, Tunisia)

Comparative Analysis of Deep Learning Models for Brain Hemorrhage Detection in CT Scans

AbdAllah W. Elsebaey and Essam H. Seddik (AASTMT, Egypt)

Awareness and Readiness of Medical Professionals in Amman Jordan Towards Artificial Intelligence in Healthcare: A Cross-sectional Study

Hebatullah Khattab (Zarqa University, Jordan), Faisal Albadainah (Oncology Center, King Abdullah Medical Center, KSA) and Amer Abu Salem (Zarqa University, Jordan)

Session 2C (Virtual) - Intelligent Systems and Optimization

<https://zoom.us/j/92640099498> (Meeting ID: 926 4009 9498 - Passcode: 571118)

Session Chairs: Prof. Dr. Nahla Belal

Adaptive System for Constructing a Mobile Robot Trajectory Using Neural Network and Stochastic Optimizer

Amer Abu-Jassar (Amman Arab University, Jordan), Hani Attar (Zarqa University, Jordan), Mohamed Hafez (Shinawatra University, Thailand), Mohammad Hamdan (Amman Arab University, Jordan), Vladyslav Yevsieiev and Vyacheslav Lyashenko (Kharkiv National University of Radio Electronics, Ukraine)

Comprehensive Analysis Regarding Imbalanced Class Distribution Problem: Best Classification Model and Best Feature Selection Technique

Raed Alazaidah, Rahaf Alsawi, Ghassan Samara, Omar Alidmat, Oqlah Al-Refai and Sami Askar (Zarqa University, Jordan)

Using Kurtosis and Fourth-Order Cumulants for Detecting Gaussianity in Signal Analysis

Adnan M. Al-Smadi (Zarqa University, Jordan) and Hazem J. Badarneh (University of Business and Technology, KSA)

A Comparative Review and Analysis of Heuristic and Metaheuristic Optimization Techniques

Baidaa Mutasher Rashed (University of Thi-Qar, Iraq)

A Proposed Methodology for Data Augmentation Using Cross-Validation and SHAP-Based Features Selection

St Suhaam Adnan Abdul alkareem (University of Kufa, Iraq), Kadhim B. S. Aljanabi (AlKafeel University, Iraq) and Salam Al-Augby (University of Kufa, Iraq)

An Efficient $O(N^2)$ Cubic Spline Smoothing Technique

Taleb Moazzeni and Javeed Hussain (Global College of Engineering and Technology, Oman)

Near-Field to Far-Field Transformation Approach for Monostatic Radar Cross-Section Measurement Using Planar Scanning

Balqees Al Shaqsi (Global College of Engineering and Technology, Oman), Dr. Stephen Henthorn (The University of Sheffield, UK) and Abdelhamied Fadl Abdelhamied Farh (Global College of Engineering and Technology, Oman)

Session 2C (Virtual) - Intelligent Systems and Optimization (Cont.)

<https://zoom.us/j/92640099498> (Meeting ID: 926 4009 9498 - Passcode: 571118)

Session Chairs: Prof. Dr. Nahla Belal

Integrating Building Information Modelling and Augmented Reality for Facility Maintenance Management in Residential Buildings

Altayeb Qasem (Imam Abdulrahman bin Faisal University, KSA), Mousa Bani Baker (Al Ain University, UAE), Fatimah Al-Rashed (Imam Abdulrahman bin Faisal University, KSA) and Qutaibah Althebyan (Al Ain University, UAE)

Session 2D (Virtual) - LLMs and Generative AI

<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)

Session Chairs: Prof. Dr. Ahmed Abou ElFarag

Advanced LLMs for Drug Effect Relation prediction Accuracy Hallucination Control and Computational Efficiency

Mohamed Elhaj-Abdou (AASTMT, Egypt) and Amena Mahmoud (Sophia university, Japan)

A Survey on Generative Models for RNA Design

Abla Benaiche and Said Gadri (Mohamed Boudiaf University of M'sila, Algeria)

CyberPentest: An Automated Penetration Testing Framework Powered by LLMs

Furah S A Abusalma, Marwa Yasser Alsherbiny, Lina AhmadKareem Alshalabi, Mohamed Rami M Raed Akchar and Muhammad ilyas (Al Ain University, UAE)

A Robust Deep-Fake Video Detection Model Based on Behavioral and Facial Features Using Random Forest Classifier

Hussien Odeh, Ayman Odeh and Haythem Bany Salameh (Al Ain University, UAE), Munther Odeh (Quantic School of Business and Technology, USA) and Nada Odeh (UAU, Al Ain, UAE)

Beyond Productivity: Exploring the Cognitive Cost of Using ChatGPT

Shorouq F. Eletter and Ghaleb A. Elrefae (Al Ain University, UAE), Abdullah Elrefae (North Park Hospital, Harrow, UK) and Hashem Aliter (Saint John Regional Hospital, Canada)

AI-Assisted Automation of Penetration Testing Using Local LLMs and RAG

Lina Ahmad Kareem Alshalabi, Marwa Yasser Alsherbiny, Furah S A Abusalama, Abdullah Mohammed Jamal Charedeh and Muhammad ilyas (Al Ain University, UAE)

Exploring Students Perceptions of ChatGPT-Supported Learning for Understanding Science Topics

Abdellateef Abdelhafez Alqawasmi (Al Ain University, UAE), Najeh Rajeh Ibrahim Alsalihi (University of Sharjah, UAE), Abdalla Falah El-mneizel (University of Jordan, Jordan), Fakir Al Gharaibeh (University of Sharjah, UAE) and Abdallah Qusef (Princess Sumayya University for Science and Technology, Jordan)

A Comparative Study on Deep Learning Approaches for Arabic Text Classification Models Datasets and Future Directions

Musab Mustafa Hijazi and Qutaibah AlThebyan (Al Ain University, UAE) and Duaa Mahmoud Al Qudah (Al Wagan School, Ministry of Education, UAE)

Ethical Decision Making in Autonomous Digital Learning Systems: Ensuring Accountability

P. William (Sanjivani University, India), Thipendra P. Singh (Chandigarh University, India), Firas Tayseer Ayasrah (Al Ain University, UAE), Sivaperumal S (Presidency University, India), Rajanikanth Aluvalu (Deemed University, India) and Kavitha Rani P. (Sanjivani University, India)

Session 2E (Virtual) - NLP and IR

<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)

Session Chairs: Prof. Dr. Walid Abdel Moez

Speech Emotion Recognition Using Deep Learning Models

Rania Agoune, Douaa Hanane Kadi, Nada Eryhane Heltali and Said Gadri (Univ. Mohamed Boudiaf of M'sila, Algeria)

GHaLIB: A Multilingual Framework for Hope Speech Detection in Low-Resource Languages

Ahmed Abdullah (FAST-National University, Pakistan), Haroon Mahmood (Al Ain University, UAE) and Sana Fatima (FAST-National University, Pakistan)

Exploring ModernBERT for the Classification of Hateful Social Media Texts

Heba Saleous and Muath AlShaikh (Al Ain University, UAE), Marton Gergely and Khaled Shuaib (United Arab Emirates University, UAE), Abdulrahman Al-Ammari, Ahmed Elsayed and Mohameden Sidi Ahmed (Al Ain University, UAE)

A Deep Learning Framework for Real-Time Word-Level Translation of American and Turkish Sign Languages

Salsabil Refaei, Mozen Asaad, Sleiman Alhajj and M. Kemal O'zdemir (Istanbul Medipol University, Turkey), Jon Rokne (Dalhousie University, Canada) and Reda Alhajj (Istanbul Medipol University, Turkey)

Automatic Classification of Emphatic Occlusives in Pathological Arabic-Speaking teenagers using Machine Learning

Khaled BAAZI (Spoken Communication and Language Pathology Division (CPPL), Algeria), Abd-el-hak GASMI (National Institute for Research in Education, Algeria), Amina SAADEDINE (Centre de Recherche Scientifique et Technique pour le Développement de la Langue Arabe), Mohamed AMMI (University of health sciences Algeria) and Rachid BELLEMOU (Centre de Recherche Scientifique et Technique pour le Développement de la Langue Arabe)

Arabic Language Automatic Speech Recognition with Diacritics: A Systematic Literature Review

Amneh Alamleh (Zarqa University, Jordan) and Bashar Kellawi (Kobe Institute of Computing, Japan)

The Impact of Influential Figures on Social and Cultural Life (Social/Linguistic Context)

Khawlah M. AL-Tkayneh, Abdeldjalil Bouzenoun and Moustafa Elmetwaly Kandeel (Al Ain University, UAE)

Semantic Content Optimization for E-Reputation: On-Page Search engine optimization (SEO) Framework Using Information Retrieval (IR)

Kaouthar DJOUDI, Zaia ALIMAZIGHI and Badiâa Dellal Hedjazi (USTHB Algiers, Algeria)

Session 3A (Physical) - Software Engineering and IT in Education

(El Farsi Hall-College of Engineering and Technology)

<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)

Session Chairs: Prof. Dr. Amani Saad and Dr. Nada Hany

Effective of Software Estimation Tools on Success Software Project: Jordanian Software Companies as Case Study

Hamed Fawareh, Heba Alazzeah and Mohammad A. Hassan (Zarqa University, Jordan)

Simplify Project Management by Incorporating of Artificial Intelligence Tool with Software Management Tool

Farah Attari and Hamed Fawareh (Zarqa University, Jordan) and Ghadeer Albesani (Applied Science Private University, Jordan)

Risk Analysis Tools Studying in Project Management with Comparisons and Recommendations

Al Refai Mohammed N., Hassan Ali Al-Ababneh. and Adai AL-Momani (Zarqa University, Jordan), Zeyad M. Jamhawi and Ahmed Ali Otoom (Applied Science Private University, Jordan), Alotaybe, Weal Haithem, Droby and Ayoub A. (Zarqa University, Jordan), Issa Atoum (Philadelphia University, Jordan) and Fahad H. Alshammari (Shaqra University, KSA)

Session 3A (Physical) - Software Engineering and IT in Education**(Cont.)****(El Farsi Hall-College of Engineering and Technology)**<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)**Session Chairs: Prof. Dr. Amani Saad and Dr. Nada Hany**

Development of Web-based Internship Management System Using the Laravel Framework

Mohammad M. Qabajeh, Dua'a Ezz-Aldeen Jaber and Tawba Khalid Mashni (Palestine Technical University, Palestine)

The Perceptions of Upper Undergraduate Students of the Implementation of the National Blended Learning Programs in Jordanian Universities

Thafer Assaraira (and Jordan University, Jordan), Saad Bani-Mohammad and Ismail Ababneh (Al al-Bayt University, Jordan)

Predicting Student Academic Performance Using Ensemble Machine Learning: A Comprehensive Study in Arab Higher Education Context

Mohammad Noor Injadat (Canadian University Dubai, UAE) and Rawia Zuod (Ministry of Education, Jordan)

AI-based Tools Test Cases Generation and Software Correctness: A Critical Review

Sara Abu Dabaa't (Zarqa University, Jordan), Mohammad Noor Injadat (Canadian University Dubai, UAE) and Ahmad Samhan (Zarqa University, Jordan)**Session 3B (Physical) - AI and NLP****(303 Hall-College of Engineering and Technology)**<https://zoom.us/j/94534668225> (Meeting ID: 945 3466 8225 - Passcode: 758606)**Session Chairs: Prof. Dr. Mohamed Kholief and Dr. Yasmine Nagi**

Exploring Ethical and Legal Challenges of Artificial Intelligence in Research Practices

Mohammad Abdallah (Al-Zaytoonah University of Jordan, Jordan), Qasem Abdallah (University of Petra, Jordan), Laila Barqawi (Al-Zaytoonah University of Jordan, Jordan) and Daniel Staegemann (Otto von Guericke University, Germany)

Robust Sentiment Classification of Arabic Banking App Reviews: A Machine Learning Approach with Multi-Source Labeling and Class Imbalance Handling

Aseel Maswadeh, Mohammed Maree and Mujahed Eleyat (Arab American University, Palestine)

Pre-trained Transformer-Based Language Model Versus Machine Learning Models for Arabic Fake News Detection

Esra'a Alshdaifat, Abdelmahdi Hraiz, Fares Alfares, Farah Nofal and Noor Al-Ali (The Hashemite University, Jordan)

Analyzing linguistic errors in the writings of non-native Swahili learners using data science techniques

Nadia Ismail Tuati, Badreddin Salem (University of Tripoli, Libya) and Abdulmalik Mahmoud Ahmad (Tawasot Libya for tech solutions and services, Libya)

An Approach to Explainable Text Summarization for News Articles

Waseem Nazmi Al-Qawasmi (Avertra Corp., Jordan) and Andrea Corradini (Management Center Innsbruck (MCI), Austria)

Bimodal Fusion of Speech and Facial Expressions for Robust Emotion Recognition

Aicha Nouisser (National School of Electronics and Telecommunications, Tunisia), Nouha Khediri (Northern Border University, KSA), Monji Kherallah and Faiza Charfi (University of Sfax, Tunisia)

Sex-Specific Speech Features and Their Association with Major Depressive Disorder

Omar Zahy (Obour STEM School, Egypt)

Session 3C (Virtual) - Smart Grids and Energy Management https://zoom.us/j/92640099498 (Meeting ID: 926 4009 9498 - Passcode: 571118)	
Session Chairs: Prof. Dr. Moustafa Hammad	
Fire Detection and Localization Using AI and IoT Trends and Future Directions (2021-2025) Sarah Ammiche Said Gadri (Mohamed Boudiaf University of M'Sila, M'Sila, Algeria)	
Cyber-Resilient Smart Grids: Adaptive Demand Response Mechanisms and False-Data-Injection Mitigation Strategies Ali Al Maqousi (University of Petra, Jordan), Ahmad Al-Qerem (Shaqra University, KSA), Wael Hadi (University of Petra, Jordan), Amjad Aldweesh (Shaqra University, KSA), Mohammad Alkasassbeh (Princess Sumaya University for Technology, Jordan) and Mohammad Alauthman (University of Petra, Jordan)	
Auditing Energy Consumption and Efficiency in Hospitals Sector in Jordan Using Data Approaches AI and IoT Takialddin Al Smadi (Jerash University, Jordan), Mousa Bani Baker (Al Ain University, UAE), Osama Al-Aqeel (Al-Balqa Applied University, Jordan), Yousif Al Mashhadany (University of Anbar, Iraq) and Qutaibah Althebyan (Al Ain University, UAE)	
Smart Energy Management Strategy for Load Prediction Utilizing a Hybrid Energy Management Strategy Hashem Mustafa Al-smadi (Al-Balqa Applied University, Jordan), Takialddin Al Smadi (Jerash University, Jordan), Mousa Bani Baker (Al Alin University, UAE) and Mohammed Hiyassat (Jerash University, Jordan)	
Strategic Placement of Public EV Charging Stations: A Maximal Covering Model for Urban Networks Tareq Oshan (AlAin University, UAE)	
Using Big Data to Improve the Effectiveness of Go-to-Market Strategies Amer O. Abu Salem (Zarqa University, Jordan)	
Intelligent Crack Detection: A Comparative Study of CNN Architectures for Severity Classification Abdulrahman A. AlKannad (Xidian University, China), Ahmad Al Smadi (Al-Zaytoonah University of Jordan, Jordan), Moeen Al-Makhlafi (Wuhan College, China) and Qotadeh Saber (Zarqa University, Jordan)	
Optimizing Exit Selection in High-Density, Asymmetrical Multi-Exit Layouts: A Probabilistic Model with Dynamic Counting Areas Omar Alidmat (Zarqa University, Jordan), Suhaila Abuowaida (Al-Albays University Mafrag, Jordan), Raed Alazaidah, Ghassan Samara, Mohammad Aljaidi (Zarqa University, Jordan) and Umi Kalsom Yusof (Universiti Sains Malaysia, Malaysia)	
Session 3D (Virtual) - Cybersecurity and Governance https://zoom.us/j/91859599435 (Meeting ID: 918 5959 9435 - Passcode: 829780)	
Session Chairs: Prof. Dr. Hesham Elzouka	
Post-Quantum Tokenized Security for C-V2X Ghassan Samara (Zarqa University, Jordan), Ibrahim Obeidat (The Hashemite University, Jordan), Mais Haj Qasem (Amman Arab University, Jordan), Raed Alazaidah and Mohammed Mahmod Shuaib (Zarqa University, Jordan), Malik Jawarneh (Amman Arab University, Jordan), Mahmoud Odeh, Hala Almomani and Mohammed Aljaidi (Zarqa University, Jordan)	
Review of Public Key Encryption Techniques in E-Government Mohammad Rasmi Al-Mousa, Murad Manasrah, Abla Suliman Husien, Asma Alamareen, Essam Al Daoud, Ghassan Samara, Ala'a Saeb Al-Sherideh and Suha Afaneh (Zarqa University, Jordan) and Mohammad Sh. Daoud (Al Ain University, UAB)	
Cybersecurity controls into government guidelines for SMEs in KSA Khaled AlQawasmi, Sultan Mohammed Albilasi, Sami Askar, Ali Abu Zaid, Lana Yasin Al Aesa, Yusra AL-Najjar, Ghassan Samara, Mohammad Aljaidi and Amer AL-Rwash (Zarqa University, Jordan)	
The Potential Use of Artificial Intelligence Applications in Commercial Corporate Governance Tariq Kameel, Ghaleb El Refae, Maryam R. Al Shamsi, Mohammed A. Al blooshi and Abdulla N. Al Kaabi (Al Ain University, UAB)	

Session 3D (Virtual) - Cybersecurity and Governance (Cont.)

<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)

Session Chairs: Prof. Dr. Hesham Elzouka

Cybersecurity in Communications: Data Protection in Business Communications

Hassan Ali Al-Ababneh (Zarqa University, Jordan), Fadwa Issa Ahmad Alsalm (Abdulrahman Bin Faisal University, KSA), Khaled Mohammad Alomari (Abu Dhabi University, UAE), Fahad H. Alshammari (Shaqra University, KSA), Al Refai Mohammed N (Zarqa University, Jordan), Zeyad M. Jamhawi and Ahmed Ali Otoom (Applied Science Private University, Jordan), Jafar Ababneh (Zarqa University, Jordan) and Farah Hanna Zawaideh (Irbid National University, Jordan)

Protect The Privacy of Information During E-Litigation

Tasneem Alnouman, Moustafa Elmetwaly Kandeel, Ghaleb Elrefae, Aysha Sultan Aldhaheeri, Saeed Alhanaee and Ibrahim Albadi (Al Ain University, UAE)

Security Risks in Data Mining Models: Threats Analysis and Defenses

Rayan Tubaileh, Noor Kaymih, Ahmad Al Shabab and Zina Houhamdi (Al Ain University, UAE)

Barriers and Enablers of Blockchain Adoption among Jordanian IT Firms

Adai Almomani, Al Refai Mohammed N and Ahmad Aburomman (Zarqa University, Jordan), Suhaila Abuowaida (Al al-Bayt University, Jordan), Mohmmad Dmour, Raed Alazaidah and Saleh Alqatan (Zarqa University, Jordan)

Firewall Action Classification Enhanced by Machine Learning: A Study on Internet Traffic Logs

Mira Hindawi, Hamza Bodair and Heba Abdel-Nabi (Princess Sumaya University for Technology, Jordan)

Session 3E (Virtual) - Business Intelligence and Supply Chain

<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)

Session Chairs: Prof. Dr. Saleh Mesbah

Leveraging Business Intelligence and Machine Learning for Robust Stock Price Prediction

Zareen Alamgir and Faiqa Ashraf (NUCES-FAST, Pakistan), Haroon Mahmood (Al Ain University, UAE) and Saira Karim (NUCES-FAST, Pakistan)

Optimizing Cost Management in Business with Digital Solutions

Hassan Ali Al-Ababneh and Al Refai Mohammed N (Zarqa University, Jordan), Fawzieh Masad (Jadara university, Jordan), Safwan Maghaydah (Abu Dhabi University, UAE), Ahmed Ali Otoom and Zeyad M. Jamhawi (Applied Science Private University, Jordan), Jafar Ababneh (Zarqa University, Jordan) and Farah Hanna Zawaideh (Irbid National University, Jordan)

Enhancing the Mediating Role of Resilient Innovation in the Impact of Information Security Practices on Resistant Supply Networks: Insights from the Manufacturing Sector

Najwa Mohammad Ashal (Middle East University, Jordan), Firas Tayseer Ayasrah (Al Ain University, UAE), Mahmoud Allahham (LTUC, Jordan), Ahmad Y. Bani Ahmad (Amman Arab University, Jordan), Hamzeh Alhawamdeh (Jerash University, Jordan) and Wafa Fahed Alatwani (Al Ain University, UAE)

The Role of Digital Supply Chain in GPS-Enabled Services in the Technology Sector in Jordan: The Mediating Role of Cloud-Based Applications

Najwa Mohammad Ashal (Middle East University, Jordan), Firas Tayseer Ayasrah (Al Ain University, UAE), Mahmoud Allahham (LTUC, Jordan), Hamzeh Alhawamdeh (Jerash University, Jordan), Ahmad Y. Bani Ahmad (Amman Arab University, Jordan) and Dalia Mohamed Fayez Al-Refai (Al Ain University, UAE)

Session 3E (Virtual) - Business Intelligence and Supply Chain (Cont.)

<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)

Session Chairs: Prof. Dr. Saleh Mesbah

The Impact of Smart Technologies in Digital Logistics: The Mediating Role of Digital Transformation

Najwa Mohammad Ashal (Middle East University, Jordan), Firas Tayseer Ayasrah (Al Ain University, UAE), Mahmoud Allahham (LTUC, Jordan), Ahmad Y. Bani Ahmad (Amman Arab University, Jordan), Prof. Zayed Ali AbdulKhaleq Al-Manzua (Al Baydha University, Yemen) and Malak Mohammed Safi (Al Ain University, UAE)

The Mediating Role of Green Practices in a Jordanian Chemical Firm - Sustainable Supply Chain and Data-Driven Decision-Making

Najwa Mohammad Ashal (Middle East University, Jordan), Firas Tayseer Ayasrah (Al Ain University, UAE), Mahmoud Allahham (LTUC, Jordan), Prof. Zayed Ali AbdulKhaleq Al-Manzua (Al Baydha University, Yemen), Ahmad Y. Bani Ahmad (Amman Arab University, Jordan) and Mahar Radwan Afif (Al Ain University, UAE)

Cross-Company Evaluation of ML Algorithms for Employee Performance Forecasting

Shadi Nashwan and Issam Jebreen (Middle East University, Jordan), Ahmad Al-Qerem (Zarqa University, Jordan) and M. Alauthman (University of Business and Technology, KSA)

A Critical Study of Compute-and-Wait PoW Algorithm

Mostefa Kara (University of El Oued, Algeria), Muath AlShaikh (Al Ain University, UAE), Mohammad Hammoudeh (King Fahd University of Petroleum and Minerals, KSA.), Ismail Kertiou (University of El Oued, Algeria), Ahcene Bounceur (University of Sharjah, UAE.) and Konstantinos Karampidis (Hellenic Mediterranean University, Greece.)

Detecting Abnormal Access Patterns in Educational Cloud Platforms: A Log-Mining Pipeline and AWS-Azure Case Study

Zina Houhamdi, Ibrahim Saber Ibrahim, Hasan Alismaiel and Mouhanad Taha (Al Ain University, UAE)

Session 4A (Physical) - Algorithms and Deep Learning

(El Farsi Hall-College of Engineering and Technology)

<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)

Session Chairs: Prof. Dr. Mohamed Shaheen and Dr. Radwa FathAllah

Improved Tornado Optimizer with Coriolis Force for Aero-Structural Wing Design

Kajal Sajudeen, Keerthana Lakshmanan, Mohammed Azmi Al-Betar and Ghazi Al-Naymat (Ajman University, UAE)

Hybrid Metaheuristic Approaches for the Travelling Salesman Problem: Comparative Analysis with single Algorithms

Iyas Qaddara, Insaf Kraidia, Abdallah S. Hyassat and Mohammad O. Hiari (Al-Ahliyya Amman University, Jordan)

Faster Deep Learning: AdamN Optimizer with Nested Momentum and Precise Double-EMA Bias Correction

Mohamed Aboulsaad and Adnan Shaout (The University of Michigan, USA)

Proposing a new method to address the problem of imbalanced class distribution in multi-label classification

Mohammad Alnawaisheh, Raed Alazaidah and Moath Alluwaici (Zarqa University, Jordan), Ahmed BaniMustafa (Higher Colleges of Technology, UAE), Hayel Khafajeh and Deana Al-Omari (Zarqa University, Jordan)

Hybrid Evolutionary Neural Network Models for Gold Price Prediction

Alaa Sheta (Southern Connecticut State University, USA), Walaa H. Elashmawi (Misr International University, Egypt), Sultan Aljahdali (Taif University, KSA), Peter Rauch (Georg Simon Ohm University of Applied Sciences, Germany) and Emad S. Othman (AL-Shorouk Academy, Egypt)

Session 4A (Physical) - Algorithms and Deep Learning (Cont.)

(El Farsi Hall-College of Engineering and Technology)

<https://zoom.us/j/94963360444> (Meeting ID: 949 6336 0444 - Passcode: 748366)

Session Chairs: Prof. Dr. Mohamed Shaheen and Dr. Radwa FathAllah

VLAD Encoding for Arabic Handwritten Recognition Using Deep Learning

Sari Awwad (The Hashemite University, Jordan) and Mohammad Aljaidi (Zarqa University, Jordan)

Dissecting the Drivers of Community Structure in Social Networks: A Quantitative Factor Analysis

Ahmed Mahdy, Mohamed Shaheen and Osama Badawy (AASTMT, Egypt)

Ride-Sharing Matching Algorithm based on Partition Merging

Hussein Khaled, Hussein Mohamed, Marwan Essam, Mariam Osama, Mariam Gerges and Mohamed Abdelrahman (Alexandria University, Egypt)

Session 4B (Physical) - Networking and Embedded Systems

(303 Hall-College of Engineering and Technology)

<https://zoom.us/j/94534668225> (Meeting ID: 945 3466 8225 - Passcode: 758606)

Session Chairs: Prof. Dr. Hany Harb and Prof. Dr. Saad Bani-Mohammad

A Simplified Intelligent Bike Alarm System: Cost-Effective and Modular Design

Adnan Shaout and Melanie Kukura (The University of Michigan, USA)

Optimizing Crop Selection Based on Soil and Climatic Compatibility

Ahmad Alshobaki and Belal Zaqabeh (Jadara University, Jordan)

Enhancing Indoor Navigation for the Visually Impaired by Object Recognition and Obstacle Avoidance

Zahraa Salah Dhaif and Nidhal K. El Abbadi (Mustansiriyah University, Iraq) and Ali H. Abdulkhaleq (Al-Furat Al- Awsat Technical University, Iraq)

Compact Dual-Band Microstrip Filter-Antenna for 5G mmWave Applications

N. K. Mallat (Al Ain University, UAE), A. Jafarieh (Sharif University of Technology, Iran), M. Nouri (MCI-RD, Iran), H. Behrooz (Sharif University of Technology, Iran) and M. Khosravani (Arak University of Technology, Iran)

3D-Printed Perforated Fresnel Lens Antenna for Beam-Switching in 5G mmWave Systems

A. Jafarieh (Sharif University of Technology, Iran), M. Nouri (MCI-RD, Iran), H. Behrooz (Sharif University of Technology, Iran), N. K. Mallat (Al Ain University, UAE) and M. Khosravani (Arak University of Technology, Iran)

QoS Position-Based Routing Protocol for Wireless Body Area Networks

Liana Qabajeh and Lubna Hashlamoun (Palestine Polytechnic University, Palestine) and Mohammad Qabajeh (Palestine Technical University, Palestine)

Reliable and Energy-Efficient Spectrum Power Allocation Framework for Cognitive Radio-enabled MIMO-based UAV Systems

Haythem Bany Salameh (Al Ain University, UAE), Banan Abu Hammad and Ahmad Al-Ajlouni (Al-Balqa' Applied University, Jordan)

Session 4C (Virtual) - Computer Vision and Image Processing

<https://zoom.us/j/92640099498> (Meeting ID: 926 4009 9498 - Passcode: 571118)

Session Chairs: Prof. Dr. Omnia Attallah

Recent Advances in Image Super- Resolution: Traditional Methods vs. Deep Learning Approaches

Zahoor M. Aydam (University of Thi-Qar, Iraq), Zainab Hdeib Al-Shably (General Directorate For Education In Najaf, Iraq) and Hanaa Ali Alshaibani (University of Kufa, Iraq)

A Hybrid Multi-Media Steganography Framework with Genetic Algorithm Optimization and Machine Learning Based Packet Manipulation Detection

Dena Abu Laila (University of Business and Technology, KSA)

Deep Learning-Based Imperceptible and Robust Watermarking with Gradient-Based Edge Detection

Issa AL-Aiash (The Hashemite University, Jordan), Mohammad Aljaidi (Zarqa University, Jordan), Mahmoud Aljamal, Saif Okour (Irbid National University, Jordan), Ayoub Alsarhan (The Hashemite University, Jordan) and Ghassan Samara (Zarqa University, Jordan)

Novel Multilevel DWT and Reed-Solomon Hybrid Watermarking Framework for Robustness Against Non-Traditional Image Distortions

Monia Abdulla Alhobishi and Nabil Mohammed Ali Munassar (University of Science and Technology ,Yemen)

Lightweight Hybrid Attention for Rock CT Image Super-Resolution

Junqiang Liu and Chen Qiu (Wuhan University of Science and Technology, China)

Improved Panoramic Image Stitching using Relative Attributes of Detected Features

Joseph Nabhan and Lama Affara (Beirut Arab University, Lebanon)

A Survey on Crowd Scene Anomaly Detection Trends Challenges and Future Directions

Mowafaq Salem Alzboon, Marwan Tayseer Al Zawahra and Mohammad Subhi Al-Batah (Jadara University, Jordan) and Muhyeeddin Alqaraleh (Zarqa University, Jordan)

A Survey on Weakly Supervised Anomaly Detection Techniques Challenges and Future Directions

Marwan Tayseer Al Zawahra and Mowafaq Salem Alzboon (Jadara University, Jordan), Muhyeeddin Alqaraleh (Zarqa University, Jordan) and Mohammad Subhi Al-Batah (Jadara University, Jordan)

AI Enhanced Smart Glasses for Autism Support A Comprehensive Review of Technologies Challenges and Future Directions

Khaled Eskaf (MidOcean University)

Session 4D (Virtual) - AI and Educational Technology

<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)

Session Chairs: Prof. Dr. Saleh Mesbah

Tools for Visualizing Research Results on Cybersecurity Implementation with Artificial Intelligence in Education

Jafar Ababneh (Zarqa University, Jordan), Amer Abu-Jassar and Thamer Mitib Al sariera (Amman Arab University, Jordan), Roman Slisarenko (University of Radio Electronics, Ukraine), Hani Attar (Zarqa University, Jordan) and Zhanna Deineko (University of Radio Electronics, Ukraine)

Session 4D (Virtual) - AI and Educational Technology (Cont.)

<https://zoom.us/j/91859599435> (Meeting ID: 918 5959 9435 - Passcode: 829780)

Session Chairs: Prof. Dr. Saleh Mesbah

The Determinants of Adoption of Open Access Scholarly Communication among Researchers

Noor Abutayeh (The Univeristy of Jordan, Jordan), Reda Al-Mawadieh, Malek Jdaitawi and Mohammad Alzoubi (Zarqa University, Jordan)

AI and Educational Games in Value-Based Learning: The Role of Student Engagement

Nabeeh Abdalmahdy Kasasbeh, Nagla Ali and Patricia Fidalgo (Emirates College for Advanced Education, UAE) and Khawlah M. AL-Tkhayneh (AI Ain University, UAE)

Dynamics of Artificial Intelligence in Teaching and Learning

Khawlah M. AL-Tkhayneh (AI Ain University, UAE), Abdulrasheed Olowoselu (Modibbo Adama University, Nigeria) and Hadil Hussein Farag (Beni Suef University, Egypt)

A Smart System for Prioritizing Educational Aid in Gaza: Integrated Support for Affected Universities and Displaced Students Using AI and IoT Technologies

Nedaa Merfeq Elfarra (UCAS, Palestine)

Investigating UAE Teachers Perception of Augmented Reality as an Interactive Medium in Science Education

Saif AlNeyadi, Enas Abulibdeh and Abdeldjalil Bouzenoun (AI Ain University, UAE), Rafia Al hammadi (Mohammed bin zayed University for Humanities, UAE) and Reem Sala (AI Ain University, UAE)

Integrating Vector Drawing Tools in Mathematics Education: Teacher Perceptions and Challenges in UAE Private Schools

Soraya Elsayed Ahmed (Hamdan Bin Mohamed Smart University, UAE), Abdurrahman AlMekhlafi (University of Sharjah, UAE), Enas Abulibdeh (AI Ain University, UAE), Hanan Shafer Almarashdi (Yarmouk University, Jordan) and Farah Abu libdeh (American University of Sharjah, UAE)

Enhancing Educational Evaluation with Z-Numbers: A Hybrid AHP and Direct Aggregation Framework Using Weighted-Expectation Transformation

Abedalhakeem Issa, Ghassan Samara and Raed Alazaidah (Zarqa University, Jordan)

Enabling Learning: The Impact of Technology on Higher Education - An Empirical Study

Maha Rahrouh, Mira Al-Naimi, Laila Al Kaabi, Dima Farhat and Enas Abulibdeh (AI Ain University, UAE)

An Automated Grading System for Programming Assignments Based On Code Similarity Techniques

Hisham Imhmed, Khamiss M. S. Ahmed, Mabroukah Amarif, Mansour Ahwidy Khamiss Ahwidy and Yousif I. E. Salem (Sebha University, Libya)

Session 4E (Virtual) - Robotics and Intelligent IT Applications

<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)

Session Chairs: Prof. Dr. Ahmed Abou ElFarag

Design and Fabrication of A Low Cost 3D Printed Myoelectric Hand Prosthesis

Nouran Gaber, Aya Ahmed Hamido, Nada Amr, Rana Mohamed Salama, Miriam Nabil, Sara Abdallah and Hania Farag (Alexandria University, Egypt)

Living History: Chatbots Bringing Famous Figures to Life

Rama Alfaran, Essam Al Daoud, Toqa Lotfi Salem Artificial, Aya Hogan, Noran Tabanjah and Lamees Al-Yaseen (Zarqa University, Jordan)

Session 4E (Virtual) - Robotics and Intelligent IT Applications (Cont.)

<https://zoom.us/j/97172373251> (Meeting ID: 971 7237 3251 - Passcode: 962693)

Session Chairs: Prof. Dr. Ahmed Abou ElFarag

Caregiver Focused Marketing Strategy for Age Inclusive HCI in the Silver Economy

Kholoud AlQeisi, Aaya Mehrez, Alaa Belarbi and Mohammad Al omari (AI Ain University, UAE)

The Reality of Employing Artificial Intelligence Applications in the Rehabilitation of Children with Autism Spectrum Disorder in the UAE

Rafia Al Hammadi (Mohammed Bin Zayed University for Humanities University, UAE), Enas Abulibdeh, Dima Farhat, Saif AlNeyadi and Emad M. Alghazo (AI Ain University, UAE)

Employing the Arithmetic Optimization Algorithm with Highly Disruptive Polynomial Mutation for Efficient Job Shop Scheduling

Noor Aldeen Alawad and Qutaibah Althebyan (AI Ain University, UAE)

Cloud Computing Technology Innovation for SMEs Women Entrepreneurs: A Study on SLA Violation

Barah Al-Awasa (Isra University ,Jordan), Mokhled S. AlTarawneh (Mutah University, Jordan), Abba Suliman Husien and Mohammad Rasmi Al Mousa (Zarqa University, Jordan)

Towards Sovereign AI: A Pragmatic Roadmap for Data-Limited Economies

Issam Jebreen and Shadi Nashwan (Middle East University, Jordan), Ahmad Al-Qerem (Zarqa University, Jordan) and M. Alauthman (University of Petra, Jordan)

E-Tajwid Software: A computer game for learning and teaching Tajwid

Majdi Sawalha, Tarik El Amsy, Bayan AbuShawar and Mo'ath Owheeb (AI-Ain University, UAE), Ali El Marazig and Mohammad Al Abous (The University of Jordan, Jordan)

Deep-Learning Integration in Teacher Education Programs

Azhar Shater (AI Ain University, UAE), Maryam Ahmed Abualrish (Moraine Valley Community College, Illinois), Eman Zaitoun (AI Ain University, UAE), Hanan Shafer Almarashdi (Yarmouk University, Jordan), Jihan Yousef and Jamal H. Abu-Attiyeh (AI Ain University, UAE)

Student Engagement Level Detection using Lightweight Hybrid MobileNet-V2 with LSTM & Bi-LSTM

Shereen A. Mohamed and Mohamed A. Abdou (Pharos University, Egypt) and Tasneem Selim (Alexandria University, Egypt)