

ICICS 2026 Technical Program

The 17th International Conference on Information & Communication Systems

May 18 – 21 2026, Irbid, Jordan



Monday, May 18

Time	Location	
9:15 – 10:00	(Front Desk - Ibn Sina Auditorium)	Registration
10:00 – 10:15	Ibn Sina Auditorium	Conference Opening • The Royal Anthem of the Hashemite Kingdom of Jordan • Recitation from the Holy Quran • Welcoming Remarks, <i>Prof. Muneer Bani Yasin</i>, Dean of the College of Information Technology, JUST, General Chair, ICICS 2026 • Opening Address by the Patron of the Conference
10:15 – 11:30	Ibn Sina Auditorium	Keynote Speech: <i>Prof. Omar Al-Jarrah</i> <u>Institutional AI: A Secure AI Ecosystem for Personalized Learning</u>
11:30– 12:00	Ibn Sina Auditorium	Coffee Break
12:00 - 15:20	Ibn Sina Auditorium	Session 1: Artificial Intelligence Chair: Dr. Ala'a Al-Howaide
12:00 - 13:20	Room 1	Session 2: Security, Privacy and Digital Forensics Chair: Dr. Qasem Abu al-Haija
12:00 - 12:40	Room 2	Session 3: Health Informatics Chair: Dr. Amal Zoubi
12:40 - 13:40	Room 2	Session 4: Natural Language Processing Chair: Dr. Ahmad Bataineh
13:40 - 14:20	Room 2	Session 5: Networking Chair: Dr. Fawaz Khasawneh
15:30 – 16:30	Dining Hall	Lunch

The 17th International Conference on Information & Communication Systems

May 18 – 21 2026, Irbid, Jordan



Tuesday, May 19

Time	Location	
11:00-11:40	Virtual Room (MS Teams link)  Chair: Dr. Yanal Al-Ahmad	Session 1: Artificial Intelligence
11:40-12:20		Session 2: Networking
12:20-12:40		Session 3: Health Informatics
12:40-13:20		Session 4: Natural Language Processing
13:20-16:00		Session 5: Security, Privacy, and Digital Forensics

Wednesday May 20, Thursday May 21

@@@ Trip to Petra and Aqaba for two days @@@ (Paid) Consult the front desk

Detailed Program

1 st DAY	Monday, May 18
9:15 – 10:00	Registration
10:00 – 10:15	Conference Opening - The Royal Anthem of the Hashemite Kingdom of Jordan - Recitation from the Holy Quran - Welcoming Remarks, <i>Prof. Muneer Bani Yasin</i>, Dean of the College of Information Technology, JUST, General Chair, ICICS 2026 - Opening Address by the Patron of the Conference
10:15 – 11:30	Keynote Speech: <i>Prof. Omar Al-Jarrah</i> <u>Institutional AI: A Secure AI Ecosystem for Personalized Learning</u> Ibn Sina Auditorium
11:30-12:00	Coffee Break Ibn Sina Auditorium

12:00-15:20	Session 1: Artificial Intelligence Chair: Dr. Ala'a Al-Howaide Ibn Sina Auditorium
12:00-12:20	3: Vector Databases in the Age of AI: Foundations, Architectures, and Emerging Applications Yanal Idrees, Hani Neiroukh* and Amer Al Badarneh
12:20-12:40	11: Enhancing the early detection of depression among university students by using Ensemble Modeling Mohammed Shatnawi, Qusai Abuein, Haya Abualasal, Taqwa Al Qudah, Reem Atassi and Hussain Alaqrabi
12:40-13:00	19: Detecting Mitosis by Analyzing Whole-Slide Images of Breast Cancer Using Deep Learning Models Nour Iqtaish, Mostafa Ali, Mohammed Alorjani and Mazen Alwadi
13:00-13:20	58: Fusion Beats Semantics: A Comparative Unsupervised Study of Text and Context for Discovering Warfare Tactics Farah Alshanik, Saif Husban, Yahya Mohammad and Naseem Ananzeh
13:20-13:40	60: Post-Add-to-Cart Purchase Prediction Using Machine Learning Husam Suleiman, Eman Idreis, Yara Allama, Diana Naser and Luay Alawneh
13:40-14:00	64: Blood Pattern Classification Using Transformer-Based Image Embeddings Deya Alzoubi, Alaa Alhowaide, Eyad Falah Al-Naimi, Tamer Husam Hamdan, Mthni Suhib Obeidat and Yanal Ahmad Al-Zu'Bi
14:00-14:20	68: Unsupervised Anomaly Detection for Lead-Time-Based Early Warning of Beam-Pump Failures Hamza Zidoun and Nada Al Humaidi
14:20-14:40	80: An End-to-End Data Engineering Pipeline for Project Domain Classification Using Synthetic Data Alaa Alhowaide, Ahmad Elaina, Ayoub Malkawi, Osama Almallah and Yaqoub Alothman
13:40-15:00	84: Online Learning for Virtual Memory: A Single-Layer Perceptron Page Replacement Policy Mohannad Abu Qarea, Abdullah Turki and Omar Almousa
15:00-15:20	86: A Deep Learning Framework for Automated Liver and Tumor Segmentation from CT Images with 3D Visualization and Multi-Architecture Evaluation Malik Jallal, Lujain Yahya, Areen Al-Akaleek, Motasem Alwedyan and Abdullah Al-Amaren

12:00-13:20	Session 2: Security, Privacy, Digital Forensics Chair: Dr. Qasem Abu al-Haija Room 1
12:00-12:20	21: Dataset Preparation for Spam and Phishing Attacks Detection Ahmad Ababneh, Maram Bani Younes* and Khulood Gaashan
12:20-12:40	79: Comparative Detection of GAN and Diffusion Model Generated Faces: Bias, Robustness, and Explainability Omar Altamimi, Manar Al Nashash and Malak Abdullah
12:40-13:00	69: Hierarchical Energy-Aware Machine Learning for Intrusion Detection in Wireless Sensor Networks Rama Jaradat and Muhannad Quwaider
13:00-13:20	87: From Awareness to Action: Exploring Human Factors in Cybersecurity within Jordan Ahmad Altamimi and Marwa Momani
12:00 - 12:40	Session 3: Health Informatics Chair: Dr. Amal Zoubi Room 2
12:00-12:20	65: An AI Framework for Automated Vertebral Identification in Spinal X-ray Screening Fahed Jubair*, Nadeen Alaqeel, Roa'A Abu-Jahasheh, Afnan Fetian, Nour Idraid, Dema Al-Weshah, Esraa Al-Qunbor, Zakie Slehat, Basil Noufal, Azmy Hadidy and Fadi Al Hadidi
12:20-12:40	88: Comparative Analysis of Machine Learning Models for Benign and Malicious Traffic Classification in IoT Healthcare Devices Enas Altatar, Aya Alkhateeb , Najla Alkhatib and Ahmad Altamimi
12:40 - 13:40	Session 4: Natural Language Processing Chair: Dr. Ahmad Bataineh Room 2
12:40-13:00	31: A Comprehensive Study of Attention-Based Deep Learning Models for Arabic Cyberbullying Detection Sara Alsanajleh, Ghada Abushaqra and Rasha Obeidat
13:00-13:20	66: Analysis and Benchmarking of LLMs for Classifying Arabic Medical Questions on the AHD Corpus Yanal Alahmad, Tariq Daradkeh, Naser Almahmoud and Salah Harb

13:20-13:40	83: Analyzing Emotional and Psychological Dynamics in Reddit News Discussions Using Pre-trained Transformer-based NLP Models Leyan Alsaedi and Ahmad Mustafa
13:40 - 14:20	Session 5: Networking Chair: Dr. Fawaz Khasawneh Room 2
13:40-14:00	78: Emotion-Aware Adaptive Virtual Reality Games: Advancing Player Emotional Profiling and Intelligent Game Personalization Mohammad Wedyan, Safa'A Dwahdeh, Abdallah Alhamad and Attila Gilányie
14:00-14:20	85: BER of Incremental Relaying DF Cooperative Communication System over α - μ Fading Channel Mohammad Muhaisen, Omar Fayez, Mamoun Al-Mistarihi and Amer Magableh
15:30-16:30	<i>Lunch</i>

2nd DAY	Tuesday, May 19 (Virtual Sessions: MS Teams Link) Chair: Dr. Yanal Al-Ahmad 
11:00-11:40	Session 1: Artificial Intelligence
11:00-11:20	22: FPGA Implementation of Parallel Integer Binary Divider Using Lookup Tables Anas Bsoul, Mohammad Al-Khaleel, Osama Al-Khaleel and Chris Papachrist
11:20-11:40	89: A Comprehensive Survey of Machine Learning and Deep Learning Techniques for COVID-19 Detection and Prediction Omar Alzoubi
11:40-12:20	Session 2: Networking
11:40-12:00	14: A Compact Wideband Side-Fed Arc-Slotted Four-Port MIMO Antenna with Enhanced Isolation for Lower 5G and WiMAX Applications Liton Chandra Paul, Anwar Parvez, Md Sohel Pervez, Md. Rifat Kabir, Tithi Rani, Sk. A. Shezan and Ali Hamdan *
12:00-12:20	15: A Compact Wideband Corrugated Patch 4x4 MIMO Antenna with High Isolation for Sub-6 GHz 5G Applications Liton Chandra Paul, Anwar Parvez, Md Sohel Pervez, Tithi Rani, Md. Rifat Kabir, Sk. A. Shezan and Ali Hamdan *
12:20-12:40	Session 3: Health Informatics
12:20-12:40	75: NeuroSense: Real-Time Monitoring of Behavior and Stress in Autistic Children Bushra Abdirahman, Aya Nasser, Alya Awadh, Sara Shibly and Mohammad Al Nawayseh.
12:40-13:20	Session 4: Natural Language Processing
12:40-13:00	5: Automatic Arabic Dialect Identification Using Structured LLM-chains With Validators Hamza Shamieh, Walid Amro and Mohammad Azzeh
13:00-13:20	74: Detection of AI-Generated Text Using BERT Across English and Spanish Ayk Alshamari and Inad Aljarrah
13:20-16:00	Session 5: Security, Privacy, and Digital Forensics
13:20-13:40	73: MIA-Bench: Quantifying the Phase Transition of User Re-Identification from Sparse social media Text Anas Alsobeh, Raneem Alkurdi and Omar Darwish
13:40-14:00	81: A Framework for Quantitative Cybersecurity Assessment of Digital Supply Chains Malik Qasaimeh, Qais Al-Na'Amneh, Fadi Bata, Mahmoud Aljawarneh and Ayoub Alsarhan

14:00-14:20	76: Federated Learning Framework for Enamel Caries Detection on Mobile Camera Images Hanan Hamasha, Mahar Khashim and Ahmad Alzu'Bi
14:20-14:40	61: Quantum Signcryption: A Hybrid Quantum-Resistant Secure Communication System Danya Al-Jubouri and Qasem Abu Al-Haija
14:40-15:00	62: Hierarchical Darknet Traffic Attribution via Feature-Engineered Ensemble Learning on the SafeSurf Dataset Aktham Al-Yahya, Qasem Abu Al-Haija and Abdullah Alshraa
15:00-15:20	9: Adversarial Exploitation of Remote Desktop Protocol (RDP) for Lateral Movement Jean Rosemond Dora, Ladislav Hluchy and Jean Rosemond Dora
15:20-15:40	10: Hooking APIs for Stealthy Remote Desktop Protocol Credential Theft Jean Rosemond Dora, Ladislav Hluchy, Friday Ikechukwu Agu and Michal Staňo
15:40-16:00	30: Learning to See the Unseen: A Machine Learning Approach for Deepfake Detection Leen Abdullah and Mohammad Ababneh
Wednesday May 20, Thursday May 21	
@@@ Trip to Petra and Aqaba for two days @@@ (Paid) consult the front desk	