



الـمـؤتـمـر الگردنـي الـدولـي The 2024 International Jordanian Cybersecurity Conference 17 - 18 Dec, 2024 Amman-Jordan

The 2024 International Jordanian Cybersecurity Conference

December 17-18, 2024 Kempinski Hotel Amman - Jordan

	Grand Ballroom Hall	AI Reem Hall			
	Day 1: Tuesday - December 17, 2024				
9:00 - 16:00	Registration				
10:00 - 11:00	Openning Ceremony (Grand Ballroom)				
11:00 - 11:30	Coffee	Break			
11:30 - 12:00	Panel Discussion 1				
12:00 - 12:30	Keynote Speech 1				
12:30 - 14:00	Technical Session 1	Technical Session 2 (Virtual)			
14:00 - 14:30	Coffee Break				
14:30 - 15:00	Keynote Speech 2				
15:00 - 16:30	Technical Session 3	Technical Session 4 (Virtual)			
16:30 - 17:30	Lunch				
	Day 2: Wednesday - Decemi	ber 18, 2024			
9:00 - 16:00	Registration				
10:00 - 12:00	Technical Session 5	CyPetra Competition Kickoff			
12:00 - 12:30	Coffee Break				
12:30 - 13:30	Panel Discussion 2				
13:30 - 14:00	Keynote Speech 3				
14:00 - 14:30	Coffee Break				
14:30 - 16:00	Technical Session 6	CyPetra Competition Closing			
16:00 - 17:00	Lunch				

Day 1: Tuesday

December 17th, 2024

* Indicates a Presenting Author

Time	Item	Place
09:00-16:00	Registration	
10:00-11:00	Opening Ceremony	Grand Ballroom
11:00-11:30	Coffee Break	
11:30-12:00	Panel Discussion 1 National Cybersecurity Policies: A Holistic Vision from Government, Financial, and Security Sectors Moderator: Belal Hafnawi	Grand Ballroom
12:00-12:30	Keynote Speech 1 Roland Abi Najem, Founder & CEO of Revotips, Kuwait Enhancing Cybersecurity in Supply Chain Risk Management through Governance and Compliance Session Chair: Wael Qassas	Grand Ballroom
12:30-14:00	Technical Session 1 Session Chair: Iman Almomani	Grand Ballroom
	 Paper 1. TDCGAN: a Novel GAN-Based Framework for Addressing Class Imbalance in Phishing Attack Detection Mohammad AlKhanafseh (Birzeit University, Palestine) and Ola Surakhi* (American University of Madaba, Jordan) Paper 2. Botnet Detection Using Hybrid Methods Wassan Hashim (Alqalam University College, Iraq); Sarmad Ali (Al- Qalam University College, Iraq); Ali Al-Khawaldeh* (Jordan Engineers Associations, Jordan); Faris AL-Shammri (University of Warith Al Anbiyaa, Iraq) Paper 3. Cybercrime Prediction via Geographically Weighted Learning: the Case Study of GCC Muhammad Al-Zafar Khan (Zayed University, United Arab Emirates); Jamal Al-Karaki* (The Hashemite University, Jordan); Emad Mahafzah (Zayed University, United Arab Emirates) 	
	 Paper 4. Penetration Testing Overview-Opportunities and Ethical Considerations: Literature Notes Mahmoud Asassfeh; Ghassan Samara; Ali Abu Zaid; Dena Abu Laila*; Shouq Al-Anzi; Abdullah Alqammaz (Zarqa University, Jordan); Ahmad Al Smadi (Zarqa University, Jordan & Zayed University, United Arab Emirates); Alaa Al-Shaikh; Mohammad Rasmi Al-Mousa (Zarqa University, Jordan) Paper 5. A Comprehensive Survey of Microsoft Office Macros' Dual Role in Enhancing Efficiency and Elevating Security Risks Homam El-Taj*; Alaa Alattas (Dar Alhikma University, Saudi Arabia) 	

12:30-14:30	Technical Session 2 (Virtual)	Al Reem
	Session Chair: Khair Eddin Sabri	
	Paper 1. RNA Encoding and Raita Algorithm for Misuse Intrusion Detection Method Using KDD-Cup99 Dataset	
	Omar Rashid* (University of Baghdad, Iraq); Mohannad Mohammed (Middle Technical University, Iraq); Saba Tuama (University of Information and Technology and Communications, Iraq)	
	Paper 2. Enhancing Image Security and Privacy Using Double Random Phase Encoding Based Chaotic System and Compressed Sensing	
	Khalid Alnidawi*; Ali Sagheer (University of Anbar, Iraq)	
	Paper 3. Performance Evaluation of Blockchain Systems Based Chaotic Multimedia Encryption Rania Abdulkadhim* and Hamsa Abdullah (AL-Nahrain University, Iraq)	
	Paper 4. Image Encryption Techniques: a Survey Heba Abughali*; Utku Kose (Suleyman Demirel University, Turkey)	
14:00-14:30	Coffee Break	
14:30-15:00	Keynote Speech 2 (Virtual)	Grand
14.30-13.00	Prof. Leandros A. Maglaras, Edinburgh Napier University, UK	Ballroom
	End-to-End Encryption: Salvation or Curse?	
	Session Chair: Iman Almomani	
15:00-16:30	Technical Session 3	Grand
10100 10100	Session Chair: Ismail Al-Taharwa	Ballroom
	Paper 1. Integrated Approaches to Steganography: Embedding Static Information Across Audio, Visual, and Textual Formats Omar Allasasmh; Dena Abu Laila*; Mohammad Aljaidi (Zarqa University, Jordan); Ayoub Alsarhan (Hashemite University, Jordan);	
	Ghassan Samara (Zarqa University, Jordan)	
	Paper 2. Improving Email Security Through Machine Learning- Based Phishing Attack Detection	
	Islam Almalkawi; Mohammad Al-hammouri; Mohammed Abu Mallouh; Tasneem Barakat* (The Hashemite University, Jordan)	
	Paper 3. ML-Based CAN Bus Message Sniffing and Classification Omar Ramadan*; Ibrahim Enaya; Ahmed Al-Zoul; Belal Sababha (Princess Sumaya University for Technology, Jordan)	
	Paper 4. Detection of Botnet Attacks on IoT Using AI	
	Ahmad Rasheed* (Princess Sumaya University for Technology, Jordan); Mohammad Alnabhan (Princess Sumaya University for Technology (PSUT), Jordan)	
15:00-16:30	Technical Session 4 (Virtual)	Al Reem
	Session Chair: Iyad Jafar	
	Paper 1. Real Time Student Monitoring Smart School Bus with an IoT Based Security System	
	Md Mehedi Hassain; Md. Jahid Hasan* (Chittagong University of Engineering and Technology, Bangladesh); Abdur Rahman (International Islamic University Chittagong, Bangladesh); Abdullah Al Fahim (Chittagong University of Engineering and Technology, Bangladesh); Mohammed Moin Uddin (Chittagong University of	

Engineering and Technology & University of Science and Technology Chittagong, Bangladesh)

Paper 2. AI-Integrated Cyber Security Risk Management Framework for IT Projects

Haidar Jabbar* (Humber Polytechnic, Canada); Samir Al-Janabi (McMaster University, Canada); Francis Syms (Humber Polytechnic, Canada)

Paper 3. Android Forensics of Edited Messages on Instagram

Dina Millatina*; Bambang Sugiantoro (UIN Sunan Kalijaga Yogyakarta, Indonesia)

Paper 4. Next-Gen Voting: a Blockchain-Based e-Voting System for Fast and Secure Digital Elections

Shukur Shakir* (University of Babil, Iraq); Alharith Abdullah (University of Babylon, Iraq)

Paper 5. Leveraging Blockchain for IoT Network Security Enhancement: a Comprehensive Survey

Ayat Kadhum; Ahmed Al-Salih*(University of Babylon, Iraq)

16:30-17:30

Lunch

Day 2: Wednesday

December 18th, 2024

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Time	Item	Place
09:00-16:00	Registration	
10:00-12:00	Technical Session 5 Session Chair: Mustafa Al-Fayoumi	Grand Ballroom
	Paper 1. SUBREDDIT Communities' Dynamic and Conflict Propagation Omar Awajan* and Christopher Jepsen (University of Vermont, USA)	
	Paper 2. S2VC: Secure Smart Vehicular Communications Iman Almomani* (University of Jordan, Jordan & Prince Sultan University, Saudi Arabia); Wissam Almahasneh; Abdalhameed Aldradkeh; Suleiman Alfar; Mousa AL-Akhras; Musa Al Yaman (University of Jordan, Jordan)	
	Paper 3. Lattice-Based RLWE Key Generation Using ECC Ahmad Homsi*; Mustafa Al-Fayoumi (Princess Sumaya University for Technology, Jordan); Mohammad Al-Fawa'reh (Edith Cowan University, Australia)	
	Paper 4. Optimizing Network Traffic Anomaly Detection with Normalized Features Sami Aljarrah (SMS Inc, Jordan); Sarra Cherbal (University of Setif 1, Algeria); Ashraf Mashaleh (Balqa Applied University, Jordan); Mohammad Alauthman (University of Petra, Jordan); Amjad Gawanmeh* (University of Dubai, United Arab Emirates)	
	Paper 5. Detecting Text-Based Cybercrimes Using BERT Abdelrahman Manna*; Mustafa Al-Fayoumi (Princess Sumaya University for Technology, Jordan); Mohammad Al-Fawa'reh (Edith Cowan University, Australia)	
	Paper 6. Renewable Energy and Cyber Threats: Safeguarding Solar Power Systems Homam El-Taj*; Fatima AlAmmari; Amena Khoja; Joud AlKhwowaiter; Dania Kamal; Layal Boragi; Renad Essa (Dar Alhikma University, Saudi Arabia)	
10:00-12:00	CyPetra Competition Kickoff	Al Reem
12:00-12:30	Coffee Break	
12:30-13:30	Panel Discussion 2 Strengthening Industrial Cybersecurity: Lessons from Banking, Telecommunications, and Power Transmission Sectors Moderator: Suad Matar	Grand Ballroom

13:30-14:00	Keynote Speech 3 (Virtual) Dr. Munther Abualkibash, Eastern Michigan University, USA Smart Defenses: Using Machine Learning in Cybersecurity Session Chair: Ismail Al-Taharwa	Grand Ballroom
14:00-14:30	Coffee Break	
14:30-16:00	Technical Session 6 Session Chair: Fawaz Khasawneh	Grand Ballroom
	Paper 1. A Secure Regional Authentication Layer for Global ADS-B Communications Abdelnoor Dabit*; Mustafa Al-Fayoumi; Khaled Mahmoud (Princess Sumaya University for Technology, Jordan)	
	Paper 2. On the Comparative Analysis of Trends in Cybersecurity Risk Assessment, Governance, and Compliance Frameworks Sami Aljarrah (SMS Inc, Jordan); Sarra Cherbal (University of Setif 1, Algeria); Ashraf Mashaleh (Balqa Applied University, Jordan); Jamal Al Karaki* (Zayed University, United Arab Emirates); Amjad Gawanmeh (University of Dubai, United Arab Emirates)	
	Paper 3. Towards Analysis Detection of Deepfake Video via Deep Learning Models: a Review Shahad Al-Tamimi*; Walid Salameh (Princess Sumaya University for Technology, Jordan)	
	Paper 4. Arabic Fake News Detection Using Deep Neural Network Transformers Mahmoud Farfoura*; Mohammad Alia; Ibrahim Mashal; Adnan Hnaif (Al-Zaytoonah University of Jordan, Jordan)	
	Paper 5. RPL Routing Attacks Detection for IoT Networks Using Machine Learning Hatem Mosa*; Amro Saleh (Princess Sumaya University for Technology, Jordan & Microsoft, Jordan); Mouhammd Alkasassbeh (Princess Sumaya University for Technology, Jordan)	
14:30-16:00	CyPetra Competition Closing	Al Reem
16:00-17:00	Lunch	