

ICICS'18 TECHNICAL PROGRAM

The 9th International Conference on Information & Communication Systems

April 3rd – 5th 2018, Irbid, Jordan



Tuesday, April 3rd Venue: J.U.S.T Irbid

8:30-10:00	<p>Registration:</p> <p>Venue: Jordan University of Science and Technology (J.U.S.T) - IRBID (Al-Karamah Auditorium)</p>
10:00-10:40	Conference Opening
10:40-11:00	Coffee Break
11:00-12:00	<p>Keynote Speech1:</p> <p>Measurement in Software Engineering: Engineering Practices or Placebos</p> <p><i>Prof. Alain Abran</i></p> <p>Chair: Muhannad Quwaider</p> <p>Room: Al-Karamah Auditorium Room1</p>
12:00-13:00	<p>Keynote Speech2:</p> <p>How BIG we are Approaching...? Super MASSIVE!</p> <p><i>Prof. Kayyali Mohamed</i></p> <p>Chair: Mahmoud Alyyoub</p> <p>Room: Al-Karamah Auditorium Room1</p>
13:00-14:00	Lunch J.U.S.T Restaurant
14:00-16:05	<p>Session 1: Security, Privacy, and Digital Forensics</p> <p>Chair: Mohammed Al-Saleh</p>

		Room1
14:00-16:05	Session 2: Data Science and Its Applications Chair: Qussai Yaseen	Room2
16:05-21:00	@@@ Welcome Dinner Trip to Umm Qais @@@	

Wednesday, April 4th Venue: *J.U.S.T Irbid*

9:00-10:00	Keynote Speech3: <i>Connected Health: recent advances and trends in technology-based healthcare</i> Prof. Jose Sevillano Chair: Mohammad Alsmirat Al-Karamah Auditorium	Room1
10:00-10:20	Coffee Break	
10:20-12:00	Session 1: Networking, IoT and Mobile Computing Chair: Eyad Taqieddin	Room1
10:20-12:00	Session 2: Software and Web Engineering: Practices and Applications Chair: Ziad Al-Sharif	Room2
12:00-13:00	Lunch J.U.S.T Restaurant	
13:00-15:30	Session 3: Multimedia, Computer Vision, AI and Image Processing Chair: Inad Aljarrah	Room1
13:00-15:30	Session 4: AI and Machine Learning: Technologies and Applications Chair: Omar Banimelhem	Room2
15:30-22:00	Trip to Dead Sea @@@@ @@@@ Gala Dinner	

Thursday, April 5th Venue: J.U.S.T Irbid	
9:00-10:00	Keynote Speech4: <i>Space Modulation Techniques: Promising Technologies for Future Wireless Systems</i> <i>Dr. Raed Mesleh</i> Chair: Ali Shatnawi Al-Karamah Auditorium Room1
10:00-10:20	Coffee Break
10:20-12:00	Session 1: Cloud Computing and Computer Architecture Chair: Lu'ay Alawneh Room1
10:20-12:00	Session 2: Communication Systems and Signal Processing Chair: Mahmoud Khodeir Room2
12:00-13:00	Lunch J.U.S.T Restaurant
13:00-14:40	Session 3: Technology-Enhanced Learning Chair: Mohammad Alsmadi Room1
13:00-14:15	Session 4: Data Science and Communication Systems Chair: Ahmad Al-Aiad Room2
14:40-21:00	Trip to Jarash @@@@ Conference Closing

Detailed Program

1st DAY	Tuesday, April 3rd	
8:30-10:00	Registration at J.U.S.T Campus	
10:00-10:40	Conference Opening Conference Chair: Dr. Ali Shatnawi Technical Committee Co-Chair: Dr. Muhannad Quwaider	
10:40-11:00	Coffee Break	
11:00-12:00	Keynote Speech1: Measurement in Software Engineering: Engineering Practices or Placebos <i>Prof. Alain Abran</i> Chair: Muhannad Quwaider Room: Al-Karamah Auditorium	
12:00-13:00	Keynote Speech2: How BIG we are Approaching...? Super MASSIVE! <i>Prof. Kayyali Mohamed</i> Chair: Mahmoud Al-yyoub Room: Al-Karamah Auditorium	
13:00-14:00	Lunch: J.U.S.T Restaurant	
14:00-16:05	Session 1: Security, Privacy, and Digital Forensics Chairs: Mohammed Al-Saleh	
		Room1
14:00-14:25	50: Corporate Attractiveness Index: A measure for assessing the potential of a cyber attack Malik Awan and Laila Dahabiyeh*	
14:25-14:50	55: Fast flux botnet detection framework using Adaptive dynamic evolving spiking neural network algorithm Ahmad Alnawasrah*, Ammar Almomani, Farid Meziane and Mohammad Alauthman	
14:50-15:15	88: A Novel Framework for Collaborative Intrusion Detection for M2M Networks Junaid Arshad, Mohammad Abdellatif, Muhammad Khan* and Muhammad Azad	

15:15-15:40	110: Dynamic Malware Analysis of Phishing Emails Mohammad Abu Qbeitah and Monther Aldwairi*
15:40-16:05	111: Impact of Duty Cycle Protocols on Security Cost of IoT Sultan Alharby*, Nick Harris, Alex Weddell and Jeff Reeve
14:00-16:05	Session 2: Data Science and Its Applications Chair: Qussai Yaseen Room2
14:00-14:25	29: Recommending with Limited Number of Trusted Users in Social Networks Weiwei Yuan, Donghai Guan and Asad Khattak*
14:25-14:50	35: An Improved Chemical Reaction Optimization Algorithm for Solving Traveling Salesman Problem Ameen Shaheen*, Azzam Sleit and Saleh Al-Sharaeh
14:50-15:15	42: Reflection of Backscattered Fast and Slow Waves on Bone Porosity using 2D Simulation Muhamad Abd-Wahab*, Rubita Sudirman and Mohd Abdul Razak
15:15-15:40	48: A Data Mining based Model for Detection of Fraudulent Behaviour in Water Consumption Qasem Al-Radaideh* and Mahmoud Al-Zoubi
15:40-16:05	53: A Fast Improved Multiple Pattern Matching Algorithm Al-Khadher Al-Qiari and Yazan Al-Issa*
16:05-21:00	@@@ Welcome Dinner Trip to Umm Qais @@@

2 nd DAY	Wednesday, April 4 th	
Page - 6 - of 9 9:00-10:00	Keynote Speech3: <i>Connected Health: recent advances and trends in technology-based healthcare</i> Prof. Jose Sevillano Chair: Mohammad Alsmirat Room: Al-Karamah Auditorium	
10:00-10:20	Coffee Break	
10:20-12:00	Session 1: Networking, IoT, Mobile Computing and AI Chair: Eyad Taqieddin Room1	
10:20-10:45	15: Comparison Study of FIFO and MDRR Queuing Mechanisms On 5G Cellular Network Mohammad Shurman*, Reem Al-Rashdan and Majeda Al-Bataineh	
10:45-11:10	44: An Intersection-based Segment Aware Algorithm for Geographic Routing in VANETs Yusor Rafid Bahar Al-Mayouf, Omar Adil Mahdi and Diaa Mohammed Uliyan*	
11:10-11:35	106: A Comparative Study of Open Source Deep Learning Frameworks Ali Shatnawi*, Ghadeer Al-Bdour, Rafi Al-Qurran and Mahmoud Al-Ayyoub	
11:35-12:00	107: Identifying Influential Positively Perceived Users in Co-Purchase Networks Aisha Al-Sadi and Mahmoud Al-Ayyoub*	
10:20-12:00	Session 2: Software and Web Engineering: Practices and Applications Chair: Ziad Al-Sharif Room2	
10:20-10:45	22: Whale Optimization Algorithm for Requirements Prioritization Abdullah Alzagebah*, Raja Masadeh and Amjad Hudaib	
10:45-11:10	72: Towards Social Collaborative Editing of Distributed Linked Data Hafed Zarzour, Mahmoud Al-Ayyoub* and Yaser Jararweh	
11:10-11:35	76: Multi-tenant Shared storage model combining sparse tables with block table Bing Peng* and Xinming Tan	
11:35-12:00	101: A New collaborative filtering recommendation algorithm based on dimensionality reduction and clustering techniques Hafed Zarzour, Ziad Al-Sharif*, Mahmoud Al-Ayyoub and Yaser Jararweh	
12:00-13:00	Lunch: J.U.S.T Restaurant	
13:00-15:30	Session 3: Multimedia, Computer Vision, AI and Image Processing Chair: Inad Aljarrah Room1	
13:00-13:25	23: Automatic Counting System for Zebrafish Eggs using Optical Scanner Bayan Alsaaidah*, Waleed Al-Nuaimy, Mohammed Rasoul Al-Hadidi and Iain Young	

13:25-13:50	56: Improved Re-ranking Approach for Multimedia Search Engines Saed Al-Qaraleh and Omar Ramadan*
13:50-14:15	66: Stability and Reduction of Statistical Features for Image Classification and Retrieval: Preliminary Results Ahmad Tarawneh, Dmitry Chetverikov, Chaman Verma and Ahmad Hassanat*
14:15-14:40	87: Video Content Analysis using Convolutional Neural Networks Inad Aljarrah* and Duaa Mohammad
14:40-15:05	94: Improving Collaborative Filtering Recommender System Using Semantic Information Bushra Alhijawi*, Nadim Obeid, Arafat Awajan and Sara Tedmori
15:05-15:30	95: Statistical Features and Voxel-based Morphometry for Alzheimer's Disease Classification Yasmeen Farouk*, Shereen Rady and Hossam Faheem
13:00-15:30	Session 4: AI and Machine Learning: Technologies and Applications Chair: Omar Banimelhem Room2
13:00-13:25	24: Combining Emojis with Arabic Textual Features for Sentiment Classification Sadam Al-Azani* and El-Sayed El-Alfy
13:25-13:50	38: Phonetic Differences for Dialect Clustering Ahmed Omer*, Marcos Zampieri and Michael Oakes
13:50-14:15	41: Evaluation of Bidirectional LSTM for Short- and Long-Term Stock Market Prediction Khaled Althelaya*, El-Sayed M. El-Alfy and Salahadin Mohammed
14:15-14:40	49: A Framework for Efficient Network Anomaly Intrusion Detection with Features Selection Hebatallah Mostafa*, Muhammed Farouk and Ayman Abdel-Hamid
14:40-15:05	85: Performance Study of Augmentation Techniques for HEP2 CNN Classification Maad Ebrahim, Mohammad Alsmirat* and Mahmoud Al-Ayyoub
15:30-22:00	Trip to Dead Sea @ @ @ @ @ @ @ @ @ @ Gala Dinner

3rd DAY	Thursday, April 5th
9:00-10:00	Keynote Speech4: <i>Space Modulation Techniques: Promising Technologies for Future Wireless Systems</i> <i>Dr. Raed Mesleh</i> Chair: Ali Shatnawi Al-Karamah Auditorium Room1
10:00-10:20	Coffee Break
10:20-12:00	Session 1: Cloud Computing and Computer Architecture Chair: Lu'ay Alawneh

		Room1
10:20-10:45	4: Fairness-Aware Scheduling Algorithm for Multiple DAGs based on Task Replication Ling Yuan*, Shikang Wei, Mingli Wang and Hairong Yu	
10:45-11:10	8: Trust Models for Services in Cloud Environment: A Survey Enas Rawashdeh*, Inas Abuqaddom and Amjad A. Hudaib	
11:10-11:35	27: A Comparative Review of High-Performance Computing Major Cloud Service Providers Rawan Aljamal*, Ali El-Mousa and Fahed Jubair	
11:35-12:00	100: Fast Exact Sequence Alignment using parallel computing Ruba Alhussien, Qanita Bani Baker* and Mahmoud Al-Ayyoub	
10:20-12:00	Session 2: Communication Systems and Signal Processing Chair: Mahmoud Khodeir	Room2
10:20-10:45	9: Pilot Contamination Mitigation in Massive MIMO-based 5G Wireless Communication Networks Mohammad Shurman, Dua'a Al-Lafi, Samah Al-Zaro and Omar Banimelhem*	
10:45-11:10	18: Monopole Tri-Band Notched Characteristics UWB Antenna for WiMAX, C-Band, WLAN and X-Band Applications Wasan H. Althubitat Al Amro* and Mohamed K. Abdelazeez	
11:10-11:35	20: Comparison of Reception Mechanisms for Molecular Communication via Diffusion Muneer Al-Zu'Bi*, Ananda Sanagavarapu and Steve Ling	
11:35-12:00	80: On the secrecy outage probability of a Physical Layer with MRC over Mixed Fading Channels Razan Shatnawi, Duaa Almomani, Mamoun Al-Mistarihi and Mahmoud Khodeir*	
12:00-13:00	Lunch: J.U.S.T Restaurant	
13:00-14:40	Session 3: Technology-Enhanced Learning Chair: Mohammad Alsmadi	Room1
13:00-13:25	26: IoT Theme for Smart datamining-based environment to unify distributed learning Management systems Hussein Abumansour* and Haifaa Elayyan	
13:25-13:50	37: Embedding Augmented and Virtual Reality in Educational Learning Method: Present and Future Rula Azawi* and Moh'D Shakkah	
13:50-14:15	54: AC Electrical Field for the Isolation of Cancer Cells Waqas Waheed, Anas Alazzam*, Eiyad Abu-Nada, Amjad Gawanmeh and Mohammad Al-Khaleel	
14:15-14:40	108: Measuring User Influence in a Co-reviewer Network Mohammad Alhourani, Abdalraheem Alsmadi and Mahmoud Al-Ayyoub*	
13:00-14:15	Session 4: Data Science and Communication Systems Chair: Ahmad Al-Aiad	Room2
13:00-13:25	96: Model-based Sentiment Analysis of Customer Satisfaction for the Jordanian Telecommunication Companies Hassan Najadat*, Amnah Al-Abdi and Yasmeen Sayaheen	
13:25-13:50	98: Fractional Order PID Control of a Radar Guided Missile Under Disturbances	

Murad Yaghi* and Mehmet Önder Efe

13:50-14:15

102: On the Automatic Construction of an Arabic Thesaurus

Ghassan Mohsen, Mahmoud Al-Ayoub, Ismail Hmeidi, and Ahmad Al-Aiad*

14:40-21:00

Trip to Jarash @ @ @ @ @ Conference Closing

***** Trip to Petra and Aqaba on April 6th and 7th (self-payment). For registration, contact mqquwaider@just.edu.jo seats are limited**