

ICICS'19 TECHNICAL PROGRAM

The 10th International Conference on Information & Communication Systems

June 11th – 13th 2019, Irbid, Jordan



Tuesday, June 11th Venue: *J.U.S.T Irbid*

8:30-10:00	<p style="text-align: center;">Registration:</p> <p style="text-align: center;">Venue: Jordan University of Science and Technology (J.U.S.T) - IRBID (Al-Karamah Auditorium)</p>
10:00-10:40	<p style="text-align: center;">Conference Opening</p>
10:40-11:00	<p style="text-align: center;">Coffee Break</p>
11:00-12:00	<p style="text-align: center;">Keynote Speech1:</p> <p style="text-align: center;">Collaborative Caching in Next Generation Wireless Networks</p> <p style="text-align: center;"><i>Prof. Hossam S. Hassanein</i></p> <p style="text-align: center;">Chair: Muhannad Quwaider Room: Al-Karamah Auditorium</p> <p style="text-align: right;">Room1</p>
12:00-13:00	<p style="text-align: center;">Lunch J.U.S.T Restaurant</p>
13:00-14:00	<p style="text-align: center;">Keynote Speech2:</p> <p style="text-align: center;">Position, Location and Navigation Services for Vehicular IoT Applications</p> <p style="text-align: center;"><i>Prof. Aboelmagd Noureldin</i></p>

	<p>Chair: Mahmoud Alyyoub Room: Al-Karamah Auditorium</p>	Room1
14:00-15:40	<p>Session 1: Networking, Mobile Computing and Data Science Chairs: Omar Almousa</p>	Room1
14:00-16:05	<p>Session 2: Security, privacy, and digital forensics Chair: Eyad Taqieddin</p>	Room2
16:05-21:00	@@@ Welcome Dinner Trip to Umm Qais @@@	

Wednesday, June 12th, Venue: J.U.S.T Irbid

9:00-10:00	<p>Keynote Speech3: Improving Health through Health Informatics <i>Prof. Najeeb Al-Shorbaji</i> Chair: Rehab Duwairi Room: Al-Karamah Auditorium</p>	Room1
10:00-10:20	Coffee Break	
10:20-12:00	<p>Session 1: Software, Web Engineering and Multimedia Chair: Ziad Al-Sharif</p>	Room1
10:20-12:00	<p>Session 2: AI and Machine Learning (1) Chair: Omar Banimelhem</p>	Room2
12:00-13:00	Lunch J.U.S.T Restaurant	
13:00-15:20	Session 3: Information Systems	

	Chair: Ahmad Al-Aiad	Room1
13:00-15:30	Session 4: AI and Machine Learning (2) Chair: Ahmad Hassanat	Room2
15:30-18:30	Trip to Jarash	
19:00-21:00	Gala Dinner	

Thursday, June 13th, Venue: J.U.S.T Irbid		
10:20-12:00	Session 1: Internet of Things (IoT) Chair: Wail Mardini	Room1
10:20-12:00	Session 2: High Performance Computing, Communication Systems and Signal Processing Chair: Anas Bsoul	Room2
12:00-13:00	Lunch J.U.S.T Restaurant *** Conference Closing	

Detailed Program

1 st DAY	Tuesday, June 11 th
8:30-10:00	Registration at J.U.S.T Campus
10:00-10:40	Conference Opening Conference Chair: Prof. Ismail Hmeidi Technical Committee Co-Chair: Dr. Muhannad Quwaider
10:40-11:00	Coffee Break
11:00-12:00	<p style="margin: 0;">Keynote Speech1:</p> <p style="margin: 0; color: blue;">Collaborative Caching in Next Generation Wireless Networks</p> <p style="margin: 0;"><i>Prof. Hossam Hassanein</i></p> <p style="margin: 0;">Chair: Muhannad Quwaider</p> <p style="margin: 0;">Room: Al-Karamah Auditorium</p>
12:00-13:00	Lunch: J.U.S.T Restaurant
13:00-14:00	<p style="margin: 0;">Keynote Speech2:</p> <p style="margin: 0; color: blue;"><i>Position, Location and Navigation Services for Vehicular IoT Applications</i></p> <p style="margin: 0;"><i>Prof. Aboelmagd Noureldin</i></p> <p style="margin: 0;">Chair: Mahmoud Alyyoub</p> <p style="margin: 0;">Room: Al-Karamah Auditorium Room1</p>
14:00-15:40	<p style="margin: 0;">Session 1: Networking, Mobile Computing and Data Science</p> <p style="margin: 0;">Chairs: Omar Almousa Room1</p>
14:00-14:20	<p style="margin: 0;">10: Arabic Word stemming Based on Pattern Affixes Removal</p> <p style="margin: 0;">Sari Awwad</p>
14:20-14:40	<p style="margin: 0;">31: Simulation Based Performance Evaluation of Several Active Queue Management Algorithms for Computer Network</p> <p style="margin: 0;">Omar Almomani, Firas Albalas*, Adeb Saaidah and Laila Al-Qaisi</p>
14:40-15:00	<p style="margin: 0;">33: Scheduling Different Types of Bag-of-Tasks Jobs in Distributed Systems</p> <p style="margin: 0;">Georgios Stavrinides and Helen Karatza*</p>

15:00-15:20	41: Congestion Control in ATM networks using PID Controller with Immune Algorithm Yousef Shatnawi and Muhannad Quwaider*
15:20-15:40	53: Enhancing The Lifetime of Wireless Sensor Network using Genetic Algorithm Hadeel Alazzam* and Wesam Almobaideen
15:40-16:00	72: Improving link failure recovery and congestion control in SDN networks Gokay Saldamli*, Himanshu Mishra, Naveen Ravi, Rahul Rao Kodati, Sahithi Abhinitha Kuntamukkala and Loai Tawalbeh
14:00-16:20	Session 2: Security, privacy, and digital forensics Chair: Eyad Taqieddin Room2
14:00-14:20	9: Network Reconnaissance Investigation: A Memory Forensics Approach Mohammed Al-Saleh, Ziad Al-Sharif and Lu'Ay Alawneh*
14:20-14:40	24: Does Privacy Matters When We are Sick? An Extended Privacy Calculus Model for Healthcare Technology Adoption Behavior Mohammed Rahman
14:40-15:00	29: Autoregressive Modeling and Prediction of Annual Worldwide Cybercrimes Qasem Abu Al-Haija and Lo'Al Tawalbeh*
15:00-15:20	38: ZigBee Security Vulnerabilities: Exploration and Evaluating Salam Khanji*, Farkhund Iqbal and Patrick Hung
15:20-15:40	39: Memory Forensics: Recovering Chat Messages and Encryption Master Key Abdullah Kazim, Fadya Almaeeni, Shamsah Al Ali, Farkhund Iqbal, Khalil Al Hussaini* and Abdallah Tubaishat
15:40-16:00	71: A Secure Collaborative Module on Distributed SDN Controllers Gokay Saldamli*, Harsha Sanjeeva, Karthik Siddalingaapa, Ruthra Vadivel Murugesan, Levent Ertaul
16:00-16:20	76: Genetic-based Key Splitting Algorithm for the Two Layered Protection Scheme Omar Banimelhem*, Hiba Al-Dahoud, Eyad Taqieddin and Moad Mowafi
16:20-21:00	@@@ Welcome Dinner Trip to Umm Qais @@@

2 nd DAY	Wednesday, June 12 th
Page - 6 - of 8 9:00-10:00	<p style="text-align: center;">Keynote Speech3:</p> <p style="text-align: center;">Improving Health through Health Informatics</p> <p style="text-align: center;"><i>Prof. Najeeb Al-Shorbaji</i></p> <p style="text-align: center;">Chair: Rehab Duwairi</p> <p style="text-align: center;">Room: Al-Karamah Auditorium Room1</p>
10:00-10:20	<p style="text-align: center;">Coffee Break</p>
10:20-12:00	<p style="text-align: center;">Session 1: Software, Web Engineering and Multimedia</p> <p style="text-align: center;">Chair: Ziad Al-Sharif</p> <p style="text-align: right;">Room1</p>
10:20-10:40	<p>20: Applied study of energy saving, voltage drop reducing technically using reactive power compensation and cable resizing in Gaza electrical grid and its program simulation quality improvement</p> <p style="text-align: center;">Hussam Awwad</p>
10:40-11:00	<p>25: A measurable website usability model: Case Study University of Jordan</p> <p style="text-align: center;">Inas Abuqaddom*, Hadeel Alazzam, Amjad Hudaib and Fawaz Al-Zaghoul</p>
11:00-11:20	<p>55: A Semi-Automatic Soccer Video Annotation System based on Ontology Paradigm</p> <p style="text-align: center;">Lamia Kazi Tani*, Abdelghani Ghomari and Mohammed Yassine Kazi Tani</p>
11:20-11:40	<p>66: A No-Refernce Image Quality Assessment For Detecting Illumination Alteration</p> <p style="text-align: center;">Cerine Tafran*, Mohamad El-Abed, Ziad Osman and Islam Elkabani</p>
11:40-12:00	<p>73: RecDNNing: A recommender system using deep neural network with user and item embeddings</p> <p style="text-align: center;">Zarzour Hafed, Ziad Al-Sharif* and Yaser Jararweh</p>
10:20-12:00	<p style="text-align: center;">Session 2: AI and Machine Learning (1)</p> <p style="text-align: center;">Chair: Omar Banimelhem</p> <p style="text-align: right;">Room2</p>
10:20-10:40	<p>5: Using Decision Tree and Artificial Neural Network To Predict Students Academic Performance</p> <p style="text-align: center;">Yasmeen Alsalman*, Nancy Abu Halemah, Eman Al Nagi and Walid Salameh</p>
10:40-11:00	<p>6: Performance Predicting in Hiring Process and Performance Appraisals using Machine Learning</p> <p style="text-align: center;">Tahani Alshawabkeh, Ali Mahmoud, Ibrahim Al Amro and Walid Salameh*</p>
11:00-11:20	<p>12: New Online/Offline Text Dependent Arabic Handwriting Database for Writer Authentication and Identification</p> <p style="text-align: center;">Mohammad Alshamaileh, Ahmad Hassanat*, Ahmad Tarawneh, M. Sohel Rahman, Ceyhun Celik and Moohanad Jawthari</p>
11:20-11:40	<p>22: Efficient Feature Selection using Particle Swarm Optimization: A hybrid filters-wrapper approach</p> <p style="text-align: center;">Fatima Koumi*, Mohammed Aldasht and Hashem Tamimi</p>
11:40-12:00	<p>32: Recent Advances of Affect Detection from Arabic Text</p> <p style="text-align: center;">Saja Tawalbeh, Omar Alzoubi* and Mohammad Al-Smadi</p>
12:00-13:00	<p style="text-align: center;">Lunch: J.U.S.T Restaurant</p>

13:00-15:20	Session 3: Information Systems Chair: Ahmad Al-Aiad	Room1
13:00-13:20	8: Data Reduction using Similarity Class and Enhanced Tolerance Relation for Complete and Incomplete Information Systems Mustafa Mat Deris*, Mariam Abdul Hamid, Riswan Efendi, Iwan Tri Riyadi Yanto and Noraini Ibrahim	
13:20-13:40	19: Dynamic Recognition For User Age-Group Classification Usng Hand Writing Based Finger On Smartphones Suleyman Alshowara	
13:40-14:00	34: Arabic Handwritten Characters Recognition using Convolutional Neural Network Hassan Najadat*, Ahmad Alshboul and Abdullah Alabed	
14:00-14:20	52: The Influence of Organizational Enforcement on the Attitudes of Employees towards Information Security Compliance Ahmed Alkalbani*, Hepu Deng and Booi Kam	
14:20-14:40	57: Employee Retention in Agile Project Management Lana Issa*, Mahdi Alkhatib, Aalaa Al-Badarneh and Abdallah Qusef	
14:40-15:00	63: Crime Analysis In Chicago City Ayidh Alqahtani, Garima Ajwani and Ahmad Alaaid*	
15:00-15:20	78: Evaluating the use of augmented reality in learning portfolios for different team roles Georgios Dafoulas, Ariadni Tsiakara, Cristiano Cardoso Maia and David Neilson*	
13:00-15:00	Session 4: AI and Machine Learning (2) Chair: Ahmad Hassanat	Room2
13:00-13:20	36: New Features for Eye-Tracking Systems: Preliminary Results Audi Al-Btoush, Mohammad A. Abbadi, Ahmad Hassanat*, Ahmad Tarawneh, Asad Hasanat and Surya Prasath	
13:20-13:40	42: Deep Face Image Retrieval: a Comparative Study with Dictionary Learning Ahmad Tarawneh, Ahmad Hassanat*, Ceyhun Celik, Dmitry Chetverikov, M. Sohel Rahman and Chaman Verma	
13:40-14:00	56: Computational Creativity: The Design of a Creative Computer Program Lana Issa*, Firas Alghanim and Nadim Obeid	
14:00-14:20	59: Optimization of PID Controller Gain Using Evolutionary Algorithms and Swarm Intelligence Dheerajreddy Maddi*, Alaa Sheta, Dharani Davineni and Heba Al-Hiary	
14:20-14:40	61: Robust Full-Car Active Suspension System Yazan Al-Rawashdeh*, Sami El Ferik and Mohammed Abido	
14:40-15:00	75: Will Transfer Learning Enhance ImageNet Classification Accuracy Using ImageNet-Pretrained Models? Maad Ebrahim, Mahmoud Al-Ayyoub and Mohammad Alsmirat*	
15:30-18:30	Trip to Jarash	
19:00-21:00	Gala Dinner	

10:20-12:00	Session 1: Internet of Things (IoT) Chair: Wail Mardini		Room1
10:20-10:40	7: Sustainable Smart World Saif Rawashdeh, Walaa Eyadat, Areen Magableh, Wail Mardini* and Muneer Bani Yasin		
10:40-11:00	37: Boosting Ridesharing Efficiency Through Blockchain: GreenRide Application Case Study Salam Khanji* and Sameer Assaf		
11:00-11:20	48: Patient Assistance System: A Proposed Structure Dina Ibrahim*, Mai Alharbi, Hana Alharbi and Nouf Alharbi		
11:20-11:40	49: Internet of Things Technology based on LoRaWAN Revolution Dina Ibrahim		
11:40-12:00	77: Investigating patterns of emotion and expressions using smart learning spaces Georgios Dafoulas, Ariadni Tsiakara, Jerome Samuels-Clarke, Cristiano Cardoso Maia, David Neilson* and Almaas Ali		
10:20-12:00	Session 2: High Performance Computing, Communication Systems and Signal Processing Co-Chairs: Mohammad Banat and Anas Bsoul		Room2
10:20-10:40	17: Scalable and Parameterizable Processor Array Architecture for Similarity Distance Computation Awos Kanan*, Fayez Gebali, Atef Ibrahim and Kin Li		
10:40-11:00	74: Alias Table Memory Circuit for Register Renaming Unit Saleh Abdel-Hafeez, Sanabel Otoom and Muhannad Quwaider*		
11:00-11:20	27: Implementation of an Intelligent Caravan Monitoring System Using a Simple Serial Communication Protocol for Microcontrollers (SSCPM) Tobias Glocker* and Timo Mantere		
11:20-11:40	67: Grey Wolf Optimizer for Optimal Design of Digital IIR Filter Mohammad Al Saaideh*, Bayan Mazideh and Dia Abu-AI-Nadi		
12:00-13:00	Lunch: J.U.S.T Restaurant *** Conference Closing		