Day 1: Wednesday 11 October, 2017 – Venue: Landmark Hotel	
08:45 – 09:30	**Registration**

09:30 – 09:50	**Conference Opening**
	  - National Anthem
	  - Quran Recitation
	Welcome address
	Prof. Arafat Awajan, Conference Chair

09:50 – 10:10	**Welcome Address** *HRH Princess Sumaya Bint El Hassan*
10:10 – 10:40	**Keynote Speech: Intelligent Vehicles and Transportation Systems. (***Room* **Rum 2)** *Prof. Yi Murphey, University of Michigan-Dearborn, USA*
10:40 – 11:00	Coffee Break
11:00 – 11:30	**Keynote Speech: Towards a computer-automated translation (CAT) system capable of ensuring high-quality communication between the hundreds of "***languages of the Web***". (***Room* **Rum 2)** *Prof. Christian Boitet, Université Grenoble Alpes, France*
11:30 – 12:00	**Keynote Speech: Edge Clouds: Architectures and Deployment Models. (***Room* **Rum 2)** *Prof. Omer Rana, Cardiff University, UK*
12:00 – 13:30	*Session 1:* **Artificial Intelligence I** (*Room* **Rum 1**) *Session 2:* **Computer and Network Security I** (*Room* **Petra**)
13:30 – 14:30	Lunch
14:30 – 16:00	*Session 3:* **Natural Language Processing I** (*Room* **Rum 1**) *Session 4:* **Computer and Network Security II** (*Room* **Petra**)
16:00	**End of Day 1** **Leave to Amman Citadel and Amman Old Town**
Day 2: Thursday 12 October, 2017 – Venue: Landmark Hotel	
08:30	**Arrival of participants**
09:00 – 09:30	**Keynote Speech: The Future of Security and Forensic Computing in the new Education 2.0 era and Emphasis in Globalisation (***Room* **Rum 2)** *Prof. Giorgio Giacinto, University of Cagliari, Italy* *Prof. George Dafoulas, Middlesex University, UK*
09:30 – 9:45	**Industrial Presentation: Mawdoo3**
10:00 – 11:30	*Session 5:* **Artificial Intelligence II** (*Room* **Rum 1**) *Session 6:* **Data Science and Big Data** (*Room* **Rum 2**)
11:30 – 12:00	Coffee Break
12:00 – 12:30	**Keynote Speech: The Theory and Applications of the Stochastic Point Location Problem. (***Room* **Rum 2)** *Prof. John Oommen, Carleton University, Canada*
12:30 – 13:00	**Keynote Speech: Fuzzy Cognitive Maps. (***Room* **Rum 2)** *Prof. Vanhoof Koen, Universiteit Hasselt, Belgium*
13:00 – 14:00	Lunch
14:00 – 15:30	*Session 7:* **Natural Language Processing II** (*Room* **Rum 1**) *Session 8:* **Image Processing and Computer Graphics** (*Room* **Rum 2**)
15:30 – 21:00	**Visit to Dead Sea and Gala Dinner**
Day 3: Friday 13 October, 2017 – Venue: Landmark Hotel	
14:00	**Arrival of participants**
14:00 – 14:30	**Keynote Speech: Building Trust in Cloud Computing** *Prof. Adnan Shaout, University of Michigan – Dearborn, USA*
14:30 – 16:00	*Session 9:* **Computer and Network Security III** (*Room* **Rum 1**) *Session 10:* **Software Engineering** (*Room* **Rum 2**)
16:00 – 16:30	Coffee Break
16:30 – 17:00	**Keynote Speech: Towards Multi-Core Processing in Automotive Power Train Control** *Prof. Osamah Rawashdeh, Oakland University, USA*
17:00 – 18:30	*Session 11:* **Online Session** (*Room* **Rum 1**) *Session 12:* **Internet of Things** (*Room* **Rum 2**)
18:30 – 19:00	**Closing Session** *Prof. Arafat Awajan, Conference Chair*
19:00 – 20:00	Dinner

Session 1: Artificial Intelligence I (*Room* **Rum 1**)	Session 2: Computer and Network Security I (*Room* **Rum 2**)
Chair:	*Chair:*
Two Stage Intelligent Automotive System to Detect and Classify a Traffic Light *Nevrus Kaja, Adnan Shaout, Omid Dehzangi*	**State of the Art in Computer Forensic Education-A Review of Computer Forensic Programmes in the UK, Europe and US** *Georgios A. Dafoulas, David Neilson, and Sukhvinder Hara*
CNN-Based Prediction of Frame-Level Shot Importance for Video Summarization *Mo. Al Nahian,A. S. M. Iftekhar,M. Tariqul Islam,S. M. Mahbubur Rahman,D. Hatzinakos*	**An Efficient E-Coin Scheme Under Elliptic Curve Cryptography** *Sattar Aboud, Mustafa Al-Fayoumi, Mohammad Al-Fayoumi, and Jaafer Al Saraireh*
Motor Imagery EEG Signal Processing and Classification Using Machine Learning Approach *Sreeja. S. R, Joytirmoy Rabha, K. Y. Nagarjuna, Debasis Samanta, Pabitra Mitra, Monalisa Sarma*	**Smart Parser for Identifying and Detecting Insecure Functions** *Esraa Al-Shammari, Ali Hadi, and Malik Qasaimeh*
A Novel Cloud Services Recommendation System Based on Automatic Learning Techniques *Rahma Djiroun, Meriem Amel Guessoum, Kamel Boukhalfa, Elhadj Benkhelifa*	**Toward a Detection Framework for Android Botnet** *Wadi' Hijawi, Ja'far Alqatawna, and Hossam Faris*
Binary Dragonfly Algorithm for Feature Selection *Majdi Mafarja, Derar Eleyan, Iyad Jaber, Abdelaziz Hammouri, Seyedali Mirjalili*	**Experimental Evaluation of a Multi-Layer Feed-Forward Artificial Neural Network Classifier for Network Intrusion Detection System** *Malek Al-Zewairi, Sufyan Almajali, and Arafat Awajan*

Session 3: Natural Language Processing I (*Room* **Rum 1**)	Session 4: Computer and Network Security II (*Room* **Rum 2**)
Chair:	*Chair:*
Using Hybrid-Stemming Approach to Enhance Lexicon-Based Sentiment Analysis in Arabic *Hunaida Awwad and Adil Alpkocak*	**Differentially Private Variance Reduced Stochastic Gradient Descent** *Jaewoo Lee*
Detecting Quotable Sentences from Text Using Syntactic Token Augmentation and Recurrent Neural Networks *Sumit Terkhedkar and Janak Porwal*	**An Efficient Two-Server Authentication and Key Exchange Protocol** *Durbadal Chattaraj, Monalisa Sarma, and Debasis Samanta*
Building Arabic Polarizerd Lexicon from Rated Online Customer Reviews *Mohammad Daoud*	**Visualizing Clustered Botnet Traffic Using t-SNE on Aggregated NetFlows** *Muayyad Saleh Alsadi and Ali Hussein Hadi*
Deep Learning Based Technique for Plagiarism Detection in Arabic Texts *Dima Suleiman, Arafat Awajan, and Nailah Al-Madi*	**Phishing Websites Prediction Using Classification Techniques** *Dyana Rashid Ibrahim and Ali Hussein Hadi*
Arabic Cultural Style Based Music Classification *Lama Soboh, Islam Elkabani, Ziad Othman*	**Victim blaming in abuses on the Internet** *Istvan Laszlo GAL, Zoltan NAGY*

Session 5: Artificial Intelligence II (*Room* **Rum 1**)	Session 6: Data Science and Big Data (*Room* **Rum 2**)
Chair:	*Chair:*
Evaluating the Performance of "Derandomized-LShade" Algorithm on CEC 2014 Benchmark Functions. *Raghda Hraiz, Mariam Khader , Mostafa Z. Ali , Amjad Hudaib*	**A New Technique for File Carving on Hadoop Ecosystem** *Esraa Alshammari, Ghazi Al-Naymat, and Ali Hadi*
Link Prediction Based on Whale Optimization Algorithm *Reham Barham, Ibrahim Aljarah*	**Dynamic Evolution of Hashtags on Twitter: A Case Study from Career Opportunities Groups** *Layal Abu Daher, Rached Zantout, and Islam Elkabani*
Reconfigurable Implementation of Fuzzy Inference System Using FPGA *Mehdi Mohammadi, Adnan Shaout*	**Development of Customs Prediction Model for Online Ordering** *Lina I. Sharawi, George Sammour, Hamzah Qabbaah, and Koen Vanhoof*
Statistical Selection of CNN-based Audiovisual Features for Instantaneous Estimation of Human Emotional States *Ramesh Basnet, M. Tariqul Islam, Tamanna Howlader, S. M. Mahbubur Rahman, D. Hatzinakos*	**Cache Optimization in IPTV Network Using Big Data Analytics and Mobile Agent Technology** *Hasan Al-Sakran*
Comparison of Crossover Types to Build Improved Queries Using Adaptive Genetic Algorithm *Khaled Almakadmeh, Wafa' Alma'aitah*	**LSHADE Enhancement Using MTS-LS1** *Marwah Alian, Dima Suleiman, and Mostafa Z. Ali*
On Utilizing the Pursuit Paradigm to Enhance the Deadlock-Preventing Object Migration Automaton *Abdolreza Shirvani and B. John Oommen*	**Optimized ANN-ABC for Thunderstorms Prediction** *Mais Ziad Younes Yasen, Ruba Amjad Salameh Al-Jundi, and Nailah Shukri Aziz Al-Madi*

Session 7: Natural Language Processing II (*Room* Rum 1) *Chair:*	Session 8: Image Processing and Computer Graphics (*Room* Rum 2) *Chair:*
Arabic LFG-inspired Dependency Treebank *Dana Halabi, Arafat Awajan, and Ebaa Fayyoumi*	**Toward a Model for E-Learning Recommender System Adoption: A Pilot Study** *Hadeel Alharbi and Kamaljeet Sandhu*
Building Domain Ontology: Experiences in Developing the Prophetic Ontology Form Quran and Hadith *Hanan A. Al-Sanasleh and Bassam H. Hammo*	**Fast Block Matching Criterion for Real-Time Video Communication** *Nijad A-Najdawi*
Arabic Word Sense Disambiguation - Survey *Marwah Alian, Arafat Awajan, and Akram Al-Kouz*	**Web-Based Augmented Reality with Natural Feature Tracking and Advanced Rendering** *Mohammed A. Al-Zoube*
The Effects of Features Selection Methods on Spam Review Detection Performance *Wael Etaiwi and Arafat Awajan*	**Context Aware VR Using BLE Beacons** *Ahmad Jarrar and Edward Jaser*
Arabic Sentiment Classification: A Hybrid Approach *Mariam Biltawi, Ghazi Al-Naymat, and Sara Tedmori*	**Using Tree-Structured Wavelet Transform to Classify and Retrieve Texture Images** *Hebatallah Khattab*

Session 9: Computer and Network Security III (*Room* Rum 1) *Chair:*	Session 10: Software Engineering (*Room* Rum 2) *Chair:*
Threat Hunting Using GRR Rapid Response *Hussein Rasheed, Ali Hadi, and Mariam Khader*	**Software Defect Prediction Using Feature Selection and Random Forest Algorithm** *Dyana Rashid Ibrahim, Rawan Ghnemat, and Amjad Hudaib*
A Proposed Password-Free Authentication Scheme Based on a Hybrid Vein-Keystroke Approach *Maria Habib and Ja'far Alqatawna*	**Screen Size Effect on Usability of Arabic Forms for Smartphones** *Rihabb Alsalamen and Ghassan Shahin*
Novel Algorithm in Symmetric Encryption (NASE): Based on Feistel Cipher *Safiah I. Bani Baker and Alaa Hussein Al-Hamami*	**Requirements Prioritization Techniques Review and Analysis** *Raneem Qaddoura, Alaa Abu-Srhan, Mais Haj Qasem, and Amjad Hudaib*
Passive DNS Analysis Using Bro-IDS *Abdulla Dakhgan, Ali Hadi, Jaafer Al Saraireh, and Doaa Alrababah*	**A Survey of IT Outsourcing in Jordanian Market** *Abdallah Qusef and Nisreen Raeq*
Securing Distributed SDN Controllers against DoS Attacks *Wael Etaiwi, Mariam Biltawi, and Sufyan Almajali*	**A Proposed Password-Free Authentication Scheme Based on a Hybrid Vein-Keystroke Approach** *Maria Habib and Ja'far Alqatawna*

Session 11: Online Session (*Room* Rum 1) *Chair:*	Session 12: Internet of Things (*Room* Rum 2) *Chair:*
Innovation in Education via Problem Based Learning from Complexity to Simplicity *Mohammed Saleh, Nedaa Al Barghuthi, and Sonia Baker*	**A Survey: Authentication Protocols for Wireless Sensor Network in the Internet of Things; Keys and Attacks** *Doaa Alrababah, Esraa Al-Shammari, and Areej Alsuht*
A Framework for Real Time News Recommendations *Jalal Omer Atoum and Ibrahim Mohamed Yakti*	**Smart Water Distribution Management System Architecture Based on Internet of Things and Cloud Computing** *Sawsan Khaleel Alshattnawi*
	A Cost Effective Information Display System Based on Open Source Technologies *Feras Al-Hawari, Hadi Etaiwi, and Sahel Alouneh*
	Using Fuzzy Method for Decision Making in Local Government *Bashar H. Hewaidi*