

ICICS'11 TECHNICAL PROGRAM



The 2nd International Conference on Information
& Communication Systems
May 22-24, 2011, Irbid, Jordan



Sunday, May 22nd

<p>9:00-10:30</p>	<p>Registration: Venue: Jordan University of Science and Technology (J.U.S.T) - IRBID (Al-Karamah Auditorium)</p>	
<p>10:30-11:10</p>	<p>Opening Speech</p>	
<p>11:10-11:30</p>	<p>Coffee Break</p>	
<p>11:30-12:30</p>	<p>Invited talk: <i>Innovation for a Smarter Planet – A Regional Perspective</i> Dr. Ahmed N. Tantawy Chair: Mohammad Al-Rousan Room: Al-Karamah Auditorium</p>	
<p>12:30-14:00</p>	<p>Lunch <i>J.U.S.T Restaurant</i></p>	
<p>14:00-17:00</p>	<p>Session 1: <i>Algorithms and Applications & Software Engineering</i> Chair: Wail E. Mardini Co-chair: Mahmoud A. Al-Ayyoub Room: Salah Eldeen (1)</p>	<p>Session 2: <i>Artificial Intelligence & Computer Graphics</i> Chair: Yaser M. Khamayseh Co-chair: Mohammad S. Alhammouri Room: Salah Eldeen (2)</p>
<p>Umm Qais Trip</p>		

Monday, May 23rd Venue: J.U.S.T Irbid

<p>9:00-10:00</p>	<p style="text-align: center;">Invited talk:</p> <p style="text-align: center;"><i>Wireless Sensor Networks for Smart Grid Applications</i></p> <p style="text-align: center;"><i>Dr. Hussein T. Mouftah</i></p> <p style="text-align: center;">Chair: Monther M. Aldwairi Room: Salah Eldeen (1)</p>	
<p>10:00-13:00</p>	<p style="text-align: center;">Session 1:</p> <p style="text-align: center;">Internet and Collaborative Computing</p> <p>Chair: Mazen M. Kharbutli Co-chair: Moath H. Jarrah</p> <p style="text-align: right;">Room: Salah Eldeen (1)</p>	<p style="text-align: center;">Session 2:</p> <p style="text-align: center;">Multimedia and Image Processing & Data Warehouses</p> <p>Chair: Inad A. Aljarrah Co-chair: MohammadA. Fraiwan</p> <p style="text-align: right;">Room: Salah Eldeen (2)</p>
<p>13:00-14:00</p>	<p style="text-align: center;">Lunch</p> <p style="text-align: center;"><i>J.U.S.T Restaurant</i></p>	
<p>14:00-17:00</p>	<p style="text-align: center;">Session 3:</p> <p style="text-align: center;">E-Government & E-Commerce</p> <p>Chair: Eyad S. Taqieddin Co-chair: Natheer Y. Khasawneh</p> <p style="text-align: right;">Room: Salah Eldeen (1)</p>	<p style="text-align: center;">Session 4:</p> <p style="text-align: center;">Semantic Web Technologies, & Pervasive and Adaptive Systems</p> <p>Chair: Omar Q. Banimelhem Co-chair: Lo' Ai A. Tawalbeh</p> <p style="text-align: right;">Room: Salah Eldeen (2)</p>
<p>17:00-23:00</p>	<p style="text-align: center;">Jarash Trip</p>	

Tuesday, May 24th Venue: *J.U.S.T Irbid*

<p align="center">9:00-12:00</p>	<p align="center">Session 1:</p> <p align="center">Applications of Neural Networks & Computer Architecture</p> <p>Chair: Ayad M. Salhieh Co-chair: Yahya M. Yashtoush</p> <p align="right">Room: Salah Eldeen (1)</p>	<p align="center">Session 2:</p> <p align="center">Information Systems & Parallel and Distributed Systems</p> <p>Chair: Ismail I. Hmeidi Co-chair: Yaser I. Jararweh</p> <p align="right">Room: Salah Eldeen (2)</p>
<p align="center">12:30-14:00</p>	<p align="center">Lunch: <i>J.U.S.T Restaurant</i></p>	
<p align="center">14:00-17:00</p>	<p align="center">Session 3:</p> <p align="center">Computer Networks</p> <p>Chair: Fahed H. Awad</p> <p align="right">Room: Salah Eldeen (1)</p>	<p align="center">Session 4:</p> <p align="center">Data Mining</p> <p>Chair: Hassan M. Najadat</p> <p align="right">Room: Salah Eldeen (2)</p>
<p align="center">17:30-22:00</p>	<p align="center">Gala Dinner(Dead Sea)</p>	

Detailed Program:

1st DAY	Sunday, May 22nd
9:00-10:30	Late Registration at J.U.S.T Campus
10:00-10:40	Dr. Mohammad Al Rousan
10:40-11:00	President of J.U.S.T
11:00-11:30	Coffee Break
11:30-12:30	<p>Invited talk:</p> <p><i>Innovation for a Smarter Planet – A Regional Perspective</i></p> <p>By: Dr. Ahmed N. Tantawy Chair: Mohammad Al-Rousan Room: Al-Karamah Auditorium</p>
12:30-14:00	Lunch: J.U.S.T Restaurant

14:00-17:00	<p>Session: Algorithms and Applications & Software Engineering Chair: Wail E. Mardini Co-chair: Mahmoud A. Al-Ayyoub Room: Salah Eldeen (1)</p>
14:00-14:25	21: Speaker Identification Using GMMs and Gender Dependent Multi-Class Support Vector Machines Rafik Djemili, Hocine Bourouba and Cherif Amara Korba
14:25-14:50	40: An auto adaptative genetic algorithm for the agent learning Asma Bendahmene and Okba Kazar
15:15-15:40	Coffee Break
15:40-16:05	56: Hand Gesture Recognition System Mohamed Alsheakhali, Ahmed Skaik, Mohammed Aldahdouh and Mahmud Alhelou
16:05-16:30	94: Iterative Algorithms for Radar Signal Processing Samira Dib, Mourad Barkat, Morad Grimes, Amal Ghemit and Sara Hamel
16:30-17:00	11: Formal Transformation of Requirements in Software Development Life Cycle: Critical Systems Karam Ignaim and Sulieman Bani-Ahmad
14:00-17:00	<p>Session: Artificial Intelligence & Computer Graphics Chair: Yaser M. Khamayseh</p>

	<p style="text-align: center;">Co-chair: Mohammad S. Alhammouri Room: Salah Eldeen (2)</p>
14:00-14:25	<p>10: <i>Progressive Algorithm for Classifier Ensemble Construction Based on Diversity in Overproduce and Select Paradigm: Application to the Arabic handwritten Recognition</i> nabiha AZIZI, nadir Farah and Mokhtar sellami</p>
14:25-14:50	<p>24: <i>Fingerprint identification Based on Skeleton Minutiae extraction</i> sozan mahmood</p>
14:50-15:15	<p>44: <i>Knowledge Management Approach for gas turbines maintenance</i> Anguel Fouzia and Sellami Mokhtar</p>
15:15-15:40	Coffee Break
15:40-16:05	<p>61: <i>The Usage of Formal Methods in Quran Search System</i> Alaa Al-Gharaibeh, Ahmad Al-Taani and Izzat Alsmadi</p>
16:05-16:30	<p>71: <i>Plagiarism Detection Based on Studying Correlation Between Author, Title and Content</i> Abeer Jarrah, Izzat Alsmadi and Zakaria Zaatreh</p>
16:30-17:00	<p>46: <i>HIGH LEVEL 3D OBJECT SELECTION FOR THE UNICON LANGUAGE</i> Jafar Al-Gharaibeh, Clinton Jeffery and Iyad Abu Doush</p>

2 nd DAY	Monday, May 23 rd
9:00-10:00	<p style="text-align: center;">Invited talk:</p> <p style="text-align: center;"><i>Wireless Sensor Networks for Smart Grid Applications</i></p> <p style="text-align: center;">By: Hussein T. Mouftah</p> <p style="text-align: center;">Chair: Monther M. Aldwairi</p> <p style="text-align: center;">Room: Salah Eldeen (1)</p>
10:00-12:30	<p style="text-align: center;">Session <i>Internet and Collaborative Computing</i></p> <p style="text-align: center;">Chair: Mazen M. Kharbutli</p> <p style="text-align: center;">Co-chair: Moath H. Jarrah</p> <p style="text-align: center;">Room: Salah Eldeen (1)</p>
10:00-10:25	<p>43: <i>INTRODUCING SOCIAL DEVELOPMENT ENVIRONMENTS</i></p> <p style="text-align: center;">Hani Bani-Salameh, Clinton Jeffery and Iyad Abu Doush</p>
10:25-10:50	<p>51: <i>A Scalable Hybrid Architecture Based on SKOS Ontology for Resource Discovery in Grid Environment</i></p> <p style="text-align: center;">Nabila Chergui and Salim Chikhi</p>
10:50-11:15	<p>96: <i>Modality Cost Analysis: A Methodology for Cost Effective Datacenter Capacity Planning in the Cloud</i></p> <p style="text-align: center;">Rabih Bashrouh and Moustafa Nouriddine</p>
11:15-11:40	<p>Coffee Break</p>
11:40-12:05	<p>27: <i>Protecting AJAX code using secure communication</i></p> <p style="text-align: center;">Rami Al-Salman, Mohammad Fraiwan and Natheer Khasawneh</p>
12:05-12:30	<p>09: <i>Supporting Distributed Aspects by Extending Object Teams Model into Distributed Environments</i></p> <p style="text-align: center;">Abdullah Al-Zaghameem</p>
12:30-13:00	<p>68: <i>A Distributed and Collaborative Approach for Evaluating New Root CA Certificates</i></p> <p style="text-align: center;">Mohammad Asmaran and Sulieman Bani-Ahmad</p>
10:00-12:30	<p style="text-align: center;">Session: <i>Multimedia and Image Processing & Data Warehouses</i></p> <p style="text-align: center;">Chair: Inad A. Aljarrah</p> <p style="text-align: center;">Co-chair: Mohammad A. Fraiwan</p> <p style="text-align: center;">Room: Salah Eldeen (2)</p>
10:00-10:25	<p>13: <i>Quantification of Corneal Neovascularization via Contourlet Transform based Segmentation of Blood Vessels</i></p> <p style="text-align: center;">Nesreen Otoum and Eran Edirisinghe</p>
10:25-10:50	<p>33: <i>Use of Gaussian Mixture Models and Vector Quantization for Singing Voice Classification in Commercial Music Productions</i></p> <p style="text-align: center;">Faiz Maazouzi and Halima Bahi</p>

10:50-11:15	65: Spatial Adaptation of multimedia documents Azze-Eddine Maredj and Nourredine Tonkin
11:15-11:40	Coffee Break
11:40-12:05	86: Frame Selection Key to Improve Video Compression Talal Hammori and Muzher Al-Ani
12:05-12:30	66: Eye Controlled Typing Using PIC16F877A Basil Hamed
13:00-14:00	Lunch: J.U.S.T Restaurant
14:00-17:00	Session: E-Government & E-Commerce Chair: Eyad S. Taqieddin Co-chair: Natheer Y. Khasawneh Room: Salah Eldeen (1)
14:00-14:25	55: Evaluating Accessibility of Jordanian E-Government Websites for People with Disabilities Mustafa Al-radaideh, Maryam Nuser and Abdullah Wahbeh
14:25-14:50	75: The Impact of Adopting E-banking on Branches Operations Strategy in Developing Economies: The case of Jordan Yazan Migdadi
14:50-15:15	76: Designing Recommendation for Presentation of 'Conceptual Model' Learning Objects Daniel Churchill
15:15-15:40	Coffee Break
15:40-16:05	53: Discovering the Web Usage in three Jordanian universities Areej Al-Qwaqenah, Belal Abu Ata and Mohammed Al-Kabi
14:00-17:00	Session: Semantic Web Technologies, & Pervasive and Adaptive Systems Chair: Omar Q. Banimelhem Co-chair: Lo" Ai A. Tawalbeh Room: Salah Eldeen (2)
14:00-14:25	63: Reverse Engineering Method of Web Application to UML Presentation Model Using Vision Based Segmentation Method Natheer Khasawneh, Safwan Al-Omari and Oduy Samarah
14:25-14:50	97: Semantic Web Services: WSMO Goal Based Architecture Houda El Bouhissi and Mimoun Malki
14:50-15:15	07: Protocol Modeling for On-body Delay Tolerant Routing in Wearable Sensor Networks Muhannad Quwaider, Mahmoud Taghizadeh and Subir Biswas
15:15-15:40	Coffee Break
15:40-16:05	36: A web PLC using distributed web servers for data acquisition and control

	Joby Antony, Basanta Mahato, Sachin Sharma and Gaurav Chitranishi
16:05-16:30	67: <i>A Framework for Adaptive Best Path Determination in Real World Traffic</i> Mohammad Asmaran and Sulieman Bani-Ahmad
16:30-17:00	29: <i>Possibilistic Networks for Aggregated Search in XML Documents</i> Fatma Zohra Bessai-Mechmache and Zaia Alimazighi

3rd DAY	Tuesday, May 24th
9:00-12:00	<p align="center">Session: Applications of Neural Networks & Computer Architecture Chair: Ayad M. Salhieh Co-chair: Yahya M. Tashtoush Room: Salah Eldeen (1)</p>
09:00-09:25	<p>04: <i>Applying Neuro-Identifier for Some of Cipher System Cipher Systems Cryptanalysis</i> Khaled M. Alallayah, Wael F. Abd EL-Wahed, Passent M. El-Kafrawy and Alaa H. Alhamami</p>
09:25-09:50	<p>45: <i>Objective-Context: Component-based Context Oriented Programming Application</i> Basel Magableh and Stephen Barrett</p>
10:15-10:40	Coffee Break
10:40-11:05	<p>12: <i>KNOWLEDGE MANAGEMENT, SHARING AND ERP SYSTEMS IN A SMALL COMPANY</i> Anoud Bani-Hani, Christopher Hinde and Thomas Jackson</p>
11:05-11:30	<p>28: <i>Review of Knowledge Extraction from Email: The Boundaries of Natural Language Processing Techniques</i> Thomas Jackson, Sara Tedmori, Christopher Hinde and Anoud Bani-Hani</p>
11:30-12:00	<p>78: <i>Arabic to English Machine Translation System based on DCF Approach</i> Fahima Bouzit and Mohamed Tayeb Laskri</p>
9:00-12:00	<p align="center">Session: Information Systems & Parallel and Distributed Systems Chair: Ismail I. Hmeidi Co-chair: Yaser I. Jararweh Room: Salah Eldeen (2)</p>
09:00-09:25	<p>64: <i>Verification Hadith Correctness in Islamic Web Pages Using Information Retrieval Techniques</i> Mohammed Shatnawi, Qusai Abuein and Omar Darwish</p>
09:25-09:50	<p>81: <i>Applying Packets Analysis as New Approach for Discovering Bluetooth Intrusion</i> Dr.Ghossoon Al-Saadoon</p>
09:50-10:15	<p>35: <i>Resource Information Datastore for Cloud Systems</i> Radko Zhelev and Vasil Georgiev</p>
10:15-10:40	Coffee Break
10:40-11:05	<p>08: <i>On Request-Partitioning-Based Processor Allocation in Two-Dimensional Mesh-based Multicomputers</i> Sulieman Bani-Ahmad</p>
11:05-11:30	<p>14: <i>Web service orchestration driven by formal specification</i> Charif Mahmoudi and Fabrice Mourlin</p>
11:30-12:00	<p>85: <i>LEADER ELECTION ALGORITHM IN HYPERCUBE NETWORK WHEN THE ID NUMBER IS NOT DISTINGUISHED</i> Mohammed Refai</p>
12:00-14:00	Lunch: J.U.S.T Restaurant

14:00-17:00	<p align="center">Session: Computer Networks Chair: Fahed H. Awad Room: Salah Eldeen (1)</p>
14:00-14:25	<p>30: <i>An Interference-aware routing protocol for Mobile Ad hoc Network</i> Le Phu Hung</p>
14:25-14:50	<p>58: <i>Performance study of SINR scheme for Vertical Handoff in wireless networks</i> Musab Al-Ghadi, Ismail Ababneh and Wail Mardini</p>
14:50-15:15	<p>60: <i>A Comparison of Different Backoff Algorithms in Mobile Ad Hoc Networks</i> Saher Manaseer, Muneer Bani Yassein and Ahamed Momani</p>
15:15-15:40	<p>62: <i>Case Study: Using ADLARS to Design and Develop a Real-Time Network Emulator</i> Rabih Bashroush, Ameer Al-Nemrat, Ivor Spence and Mohammad Bachrouh</p>
14:00-17:00	<p align="center">Session: Data Mining Chair: Hassan M. Najadat Room: Salah Eldeen (2)</p>
14:00-14:25	<p>15: <i>Evolving the input space for decision tree building</i> Christopher Hinde, Anoud Bani-Hani, Thomas Jackson and Yen Cheung</p>
14:25-14:50	<p>38: <i>A Decision Analysis Model for Vegetation Management</i> Waqar Haque, Jake Edwards and Derek Belsham</p>
14:50-15:15	<p>79: <i>A case of GCC Islamic banks performance before and during the crisis</i> Abdel Latef Anouze and Ali Emrouznejad</p>

Social Activities

Umm Qais Trip

<p>18:00 - 23:00</p> <p>check the exact timing at the conference registration desk</p>	<p>Sunday , May 22</p> <p>Free to all Participants</p> <ul style="list-style-type: none">- A visit to Umm Qais historical city in north of Irbid <p>18:00 Departure from JUST</p> <p>Umm Qais (Arabic: أم قيس) is a town in Jordan located on the site of the ruined Hellenistic-Roman city of Gadara. The town was also called Antiochia or Antiochia Semiramis (Ancient Greek: Ἀντιόχεια Σεμίραμις) and Seleucia. Gadara was a semi-autonomous city of the Roman Decapolis.</p> <p>Umm Qais has become a popular tourist attraction, a frequent destination for day trips from Irbid and, Amman. It is popular not only because of the extensive ruins but because its position on a high hill nears the northwestern corner of the country allows for panoramic views. The Sea of Galilee and Tiberias, Palestine, are visible, and just across the valley of the Yarmouk River is the southern end of the Golan Heights. The high mountains bordering Lebanon are visible in the distance on clear days.</p>
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Jarsh Trip

<p>17:00 - 22:00</p> <p>check the exact timing at the conference registration desk</p>	<p>Monday , May 23 Free to all Participants</p> <ul style="list-style-type: none">- A visit to the historical city of Jarash <p>17:00 Departure from JUST</p> <ul style="list-style-type: none">- A traditional BBQ dinner in the city of Jarash <p>Jerash is known for the ruins of the Greco-Roman city of Gerasa, also referred to as Antioch on the Golden River. It is sometimes misleadingly referred to as the "Pompeii of the Middle East or Asia", referring to its size, extent of excavation and level of preservation. Jerash is considered one of the most important and best preserved Roman cities in the Near East. It was a city of the Decapolis.</p> <p>Jerash was the home of Nicomachus of Gerasa (Greek: Νικόμαχος) (c. 60 – c. 120) who is known for his works Introduction to Arithmetic (Arithmetike eisagoge), The Manual of Harmonics and The Theology of Numbers.</p> <p>Remains in the Greco-Roman Jerash include:</p> <ul style="list-style-type: none">• The Corinthian column• Hadrian's Arch• The circus/hippodrome• The two large temples (dedicated to Zeus and Artemis)• The nearly unique oval Forum, which is surrounded by a fine colonnade,• The long colonnaded street or cardo• Two theatres (the Large South Theatre and smaller North Theatre)• Two baths, and a scattering of small temples• An almost complete circuit of city walls.
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Dead Sea Trip (Gala Dinner)

<p>17:00 - 22:00</p> <p>check the exact timing at the conference registration desk</p>	<p>Tuesday , May 24</p> <p>- A visit and a dinner to the Dead Sea Area 17:00 Departure from JUST</p> <p>TBD</p>
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One Day Trip to Petra

<p>07:30 - 23:00</p> <p>check the exact timing at the conference registration desk</p>	<p>Wednesday , May 25 Only for those registered (see the registration form, lunch, drinks, and entry fees included)</p> <p>Petra in Details 07:30 Departure from Irbid</p> <p>No visit to Jordan is complete without a visit to the rose-red city of Petra, one of the wonders of the world. Carved from the pink-hued stone more than 2,000 years ago, this amazing site embraces temples, tombs, gorges and cliffs. Accompanied by your own private driver and guide, you'll enjoy personalized attention on your private tour of the unforgettable city of Petra.</p> <p>Located 190 miles (300 kilometers) from Irbid, Petra once dominated the trade routes of ancient Arabia. Your visit to this hauntingly beautiful place begins with a walk through the Siq, a narrow path that was once the main entrance to the city. An impressively long, deep and narrow gorge of stunning natural beauty, the Siq is hemmed in by cliffs soaring up to 263 feet (80 meters), and measures three-quarters of a mile (1.2 kilometers).</p> <p>At the end of the Siq, you will see the Treasury, El-Khazneh, which was believed to hold countless treasures. Your first view of El-Khazneh is absolutely breathtaking, so have your camera ready! Other monuments you will see in Petra include the theater, Altar of Sacrifice and the royal tombs.</p> <p>Your private two-hour tour of Petra is led by a local guide, provided by the Authority of Petra under the Ministry of Tourism. Please remember to wear comfortable shoes for this unforgettable adventure.</p>
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