

2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)

6-8 December, 2011

The University of Jordan
Faculty of Engineering and Technology
Amman, Jordan

<http://ewh.ieee.org/r8/jordan/AEECT2011>

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Welcome Message

On behalf of the Conference Organizing Committee, it gives me a great pleasure to welcome you to the 2011 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT). I am honored to be the General Chair of the organizing team of such an important and interesting event, which is taking place in the University of Jordan, Amman, Jordan, during December 6-8, 2011.

The theme of this conference is *Technology for Solving National Problems*. This theme is a symbolic reflection of the importance of electrical engineering and computing technologies in solving many problems that face Jordan and other countries. This international conference provides a unique forum to discuss practical approaches and state of the art findings in using these technologies to solve national problems related to energy, communications, management, health, business, and other areas.

This conference is the first of a series of conferences organized by the IEEE – Jordan Section. The section, which was established in Jordan in 1999, intends to hold this conference biannually. The section plans to hold the next AEECT conference in November 2013.

AEECT 2011 has received papers in its nine tracks that cover the various aspects of the electrical engineering and computing technologies. A total of 65 paper are included in the printed conference proceedings and are presented in the thirteen technical sessions of this conference.

We are proud to have in this conference program six distinguished keynote speakers who deliver interesting speeches in renewable energy, electric vehicles, unmanned vehicles, communications spectrum, and the future of the internet. Moreover, the conference includes two panel discussions on renewable energy policies and regulations and the potential of electronic industry in Jordan.

We are looking forward to an exciting, vibrant assembly in our venue and we welcome the AEECT 2011 participants in the University of Jordan in Amman.

Dr. Gheith Abandah
AEECT 2011, General Chair
IEEE – Jordan Section, Chair
The University of Jordan, Associate Professor

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Day 1: Tuesday

December 6, 2011

8:00 A.M. – 6:00 P.M.

* Indicates a Presenting Author

Time	Item	Place
08:00-09:00	Registration	Entrance Hall
09:00-09:30	Opening Ceremony <ul style="list-style-type: none">The Royal Anthem of the Hashemite Kingdom of JordanRecitation from the Holy QuranWelcoming Remarks, Dr. Ibrahim Al-oqilyGheith Abandah, General Chair, AEECT 2011Adel Al-Twaisy, President, The University of JordanBasem Al-Rousan, Minister of Information and Communications Technology	Large Aud.
09:30-10:00	Coffee Break	Entrance Hall
10:00-11:00	Keynote Speech 1 Issa Batarseh President, Princess Sumaya University for Technology <i>Solar Energy Conversion Technologies to Enable Smart-Grid Deployment</i> Session Chair: Samih Qaqish, Dean, Faculty of Eng. and Technology, The University of Jordan	Large Aud.
11:00-01:00	Communications and Networking 1 Session Chair: Mohammad Mismar, Vice president, Hashemite University Session Co-chair: Shadi Alboon, Yarmouk University Paper 1 <i>Scattering by PEMC Elliptic Cylinder Loaded by Metamaterial Coating</i> Abdulkadir Hamid (University of Sharjah, UAE) Paper 2 <i>Design of Linear and Circular Antenna Arrays Using Biogeography Based Optimization</i> Ashraf Sharaq* (Jordan University of Science and Technology, Jordan); Nihad I. Dib (Jordan University of Science and Technology, Jordan) Paper 3 <i>Design and Analysis of Compact Unequal-Split Wilkinson Power Divider Using Non-Uniform Transmission Lines</i> Derar Hawatmeh* (Jordan University of Science and Technology, Jordan); Khair Al Shamaileh (Waseela for	Large Aud.

Integrated Telecommunications Solutions, Jordan);
Nihad I Dib (Jordan University of Science and
Technology, Jordan)

Paper 4 *A Channels Reuse Protocol for WDM Networks*
Peristera Baziana* (National Technical University of
Athens, Greece); Ioannis Pountourakis (National
Technical University of Athens, Greece)

Paper 5 *Misdirection Attack Detection in Link-State Routing
Protocols*

Rushdi Hamamreh* (Al-Quds Open University,
Palestine); Mohammad Odeh (Al-Quds University,
Palestine)

11:00-01:00 Electrical Power 1

*Medium
Aud.*

Session Chair: Mohammad Khedher, The University of Jordan
Session Co-chair: Ashraf Saleem, Philadelphia University

Paper 1 *Computation of Static and Dynamic Axial and Radial
Forces on Power Transformer Windings due to Inrush and
Short Circuit Currents*

Jawad Faiz* (University of Tehran, Iran); Bashir
Mahdi Ebrahimi (University of Tehran, Iran); Wejdan
Abu-Elhajja (Princess Sumaya University For
Technology, Jordan)

Paper 2 *Fast and Precise Method of Contingency Ranking in
Modern Power System*

Zakir Hussain* (KK-electronic a/s, Denmark); Zhe
Chen (Aalborg University, Denmark); Paul Thøgersen
(KK-electronic a/s, Denmark)

Paper 3 *Optimal Allocation of DG Regarding to Power System
Security Via DE Technique*

Mohsen Rezaie Estabragh (Shahid Bahonar University
of Kerman, Iran); Mohsen Mohammadian* (Shahid
Bahonar University of Technology, Iran)

Paper 4 *Evaluation of Current Transformer Performance in the
Presence of Remnant Flux and Harmonics*

Hussam Mostafa (Suez Canal University, Egypt);
Ahmed Shalltoot* (EGEMAC CO., Egypt); Hosam
Youssef (Cairo University, Egypt)

Paper 5 *A Solar-Wind Hybrid Power System for Irrigation in
Toshka Area*

Mazen Abdel-Salam* (Assiut University, Egypt); Adel
Ahmed (Assiut University, Egypt); Hamdy Ziedan
(Assiut University, Egypt); Khairy Sayed (Sohag
University, Egypt); Mahmoud Amery (Assiut
University, Egypt); Mohamed Swify (Assiut University,
Egypt)

11:00-01:00 IT Applications & Services 1

Small Aud.

Session Chair: Walid Salameh, Dean, Graduate Studies and Research, Princess Sumaya University for Technology

Session Co-chair: Ibrahim Al-oqily, Hashemite University

Paper 1 *A Simplified Method for Off-Line Track Matching for Fleet Management*

Mahmoud Alnaanah (Al-Hussein Bin Talal University, Jordan); Ahmad Aljaafreh* (Tafila Technical University, Jordan)

Paper 2 *Improving Cardiac Patient Flow Based on Complex Event Processing*

Aladdin Baarah* (University Of Ottawa, Canada); Alain Mouttham (University of Ottawa, Canada); Liam Peyton (University of Ottawa, Canada)

Paper 3 *Mobile Phone-Based Health Data Acquisition System Using Bluetooth Technology*

Majid A. Al-Tae* (The University of Jordan, Jordan); Nadine Jaradat (University of Jordan, Jordan); Dima Abu Ali (The University of Jordan, Jordan)

Paper 4 *Users' Classification and Usage-Pattern Identification in Academic Social Networks*

Omar Almousa (Al-Balqa Applied University, Jordan)

Paper 5 *The Biometric Authentication Solution for Mobile Devices: "MobiComBiom" (Mobile Communication Biometrics)*

Werner Blessing (BIOMETRY, Switzerland)

01:00-02:30 Lunch

University Restaurant

**02:30-03:30 Keynote Speech 2
Longya Xu**

Large Aud.

Director, Center of High Performance Power Electronics at Ohio State University

Next Generation Wind Turbine

Session Chair: Mohammad Al-Saad, The University of Jordan

03:30-04:00 Coffee Break

Entrance Hall

04:00-06:00 Communication and Networking 2

Large Aud.

Session Chair: Hussein Al-Bahadili, Petra University

Session Co-chair: Esam Al-Qaralleh, Princess Sumaya University for Technology

Paper 1 *Overview of Implementation Constraints for Flexible and Intelligent Hybrid Networks*

Kira A. Kastell* (Fachhochschule Frankfurt am Main - University of Applied Sciences, Germany); Thomas-Alexandros Daskalou (Fachhochschule Frankfurt am Main - University of Applied Sciences, Germany); Erick González-Rodríguez (Technische Universität

Darmstadt, Germany); Rolf Jakoby (Institute of Microwave Engineering, Technical University of Darmstadt, Germany)

Paper 2 *SANA: A Service-Aware Naming Architecture for Future Internet*

Nahla Abid* (Orange Labs, France); Philippe Bertin (Orange Labs, France); Jean-Marie Bonnin (Telecom Bretagne, France)

Paper 3 *Bandwidth Exploitation with Propagation Delay Analysis in WDM Networks*

Peristera Baziana* (National Technical University of Athens, Greece); Ioannis Pountourakis (National Technical University of Athens, Greece)

Paper 4 *Multiband CPW-Fed Rectangular Ring Microstrip Antenna Design for Wireless Communications*

Emad Shehab Ahmed (University of Technology, Iraq)

Paper 5 *Simulation of Doubly Selective Fading Channels Using Autoregressive Modeling and Optimum Receiver Design*

Shehab Mohammad Tawalbeh* (Jordan University of Science and Technology, Jordan); Mohammad M. Banat (Jordan University of Science and Technology, Jordan)

04:00-06:00 Electrical Power 2

*Medium
Aud.*

Session Chair: Wejdan Abu-Elhajja, Dean, College of Electrical Eng., Princess Sumaya University for Technology

Session Co-chair: Nabil Tawalbeh, The University of Jordan

Paper 1 *Stochastic Simulation of a Power Generation Air Joint*

Osama M Al-Hababbeh* (The University of Jordan, Jordan); Daryush Aidun (Clarkson University, USA); Pier Marzocca (Clarkson University, USA)

Paper 2 *Design and Implementation of Stand-alone Residential PV System*

Mazen Abdel-Salam* (Assiut University, Egypt); Adel Ahmed (Assiut University, Egypt); Mahmoud Amery (Assiut University, Egypt); Mohamed Swify (Assiut University, Egypt); Ahmed El-kousy (Cairo University, Egypt); Khairy Sayed (Sohag University, Egypt)

Paper 3 *Direct Power Control of DFIG Based on a 3-Level Flying Capacitor Multi-Level Inverter*

Amr Abdin* (Ain Shams University, Egypt); Mostafa Ibrahim Marei (Ain Shams University, Egypt); Mohamed Badr (Ain Shams University, Egypt)

Paper 4 *Reconfiguration for Loss Reduction of Distribution Systems Using Selective Particle Swarm Optimization*

Tamer Khalil* (Canal Company for Electricity Distribution, Egypt); Alexander Gorpnich (Pryazovskyi State Technical University, Ukraine)

Paper 5 *Economics-Based Transmission Expansion Planning in*

*Restructured Power Systems Using Decimal Codification
Genetic Algorithm*

Vahid Asadzadeh* (Shahrood University of Technology, Iran); Masoud Aliakbar Golkar (K. N. TOOSI University of Technology, Iran); S. Masoud Moghaddas-Tafreshi (K. N. TOOSI University of Technology, Iran)

04:00-06:00 Intelligent Systems 1

Small Aud.

Session Chair: Riyad Al-Shalabi, Al-Ahliyya Amman University
Session Co-chair: Mousa Al-Akhras, The University of Jordan

Paper 1 *Supervised Texture Segmentation: A Comparative Study*

Omar Al-Kadi (University of Jordan, Jordan)

Paper 2 *Training Set Selection Using Entropy Based Distance*

Tomasz Kajdanowicz* (Wroclaw University of Technology, Poland); Slawomir Plamowski (Wroclaw University of Technology, Greece); Przemyslaw Kazienko (Wroclaw University of Technology, Poland)

Paper 3 *Intelligent Control of Glucose Concentration Based on an Implantable Insulin Delivery System for Type I Diabetes*

Mohamed Al-Fandi* (Jordan University of Science and Technology, Jordan); Mohammad Jaradat (Jordan University of Science and Technology, Jordan); Yousef Sardahi (Jordan University of Science and Technology, Jordan); Lina Al-Ebbini (Jordan University of Science and Technology, Jordan); Maysa Khaleel (Jordan University of Science and Technology, Jordan)

Paper 4 *Designing Game Playing Behaviour for AI Players*

Hanno Hildmann* (Cypherpunch & University of the West of Scotland, United Kingdom); Malcolm Crowe (University of the West of Scotland, United Kingdom)

Paper 5 *A Knowledge-Based System for Measuring the Quality of the Distribution of Salami Slices on Pizza Crusts*

Mohammad Mashi* (Tu-ilmenau, Germany); Christoph Ament (University of Ilmenau, Germany)

Day 2: Wednesday

December 7, 2011

8:00 A.M. – 5:30 P.M.

Time	Item	Place
08:00-05:00	Registration	<i>Entrance Hall</i>
09:00-10:00	Keynote Speech 3 Yahya Zweiri Design & Development Manager, King Abdullah II Design & Development Bureau <i>Development of UGVs and UAVs for Military and Law Enforcement Operations</i> Session Chair: Hazem Kaylani, Dean, School of Applied Technological Sciences, German Jordanian University	<i>Large Aud.</i>
10:00-10:30	Coffee Break	<i>Entrance Hall</i>
10:30-12:30	Panel Discussion 1 Renewable Energy Policies and Regulations in Jordan Moderator: Hisham Othman, VP Prof. Services, Petra Solar Panelists:- <ul style="list-style-type: none">• Ahmad Hiasat, Chairman, Energy Regulatory Commission• Ghaled Maabra, Managing Director, National Electric Power Company• Ghaleb Summak, CEO, Kingdom Electricity Company• Shukri Halabi, CEO, Millennium Energy• Hanna Zaghoul, CEO, Kawar Energy	<i>Large Aud.</i>
10:30-12:30	Computers & Electronics Session Chair: Majid Al-Tae, The University of Jordan Session Co-chair: Mazen Kharbutli, Jordan University of Science and Technology Paper 1 <i>Universal ISA Simulator with Soft Processor FPGA Implementation</i> Islam Almasri* (King Abdullah University of Science and Technology, Jordan); Gheith A. Abandah (The University of Jordan, Jordan); Ali Shhadeh (The University of Jordan, Jordan); Anas Shahrour (Masdar Institute of Science and Technology, Jordan) Paper 2 <i>Efficient IIR Wavelet Filter Banks with Approximate Linear-phase in Pass-band</i> Jassim Abdul-Jabbar* (University of Mosul, Iraq); Rasha Waleed (University of Mosul, Iraq)	<i>Medium Aud.</i>

Paper 3 *Implementation of the CA-CFAR Algorithm for Pulsed-Doppler Radar on a GPU Architecture*

Chris J Venter* (Council for Scientific and Industrial Research, South Africa); Hans Grobler (University of Pretoria, South Africa); Khalid Ali AlMalki (King Abdulaziz City for Science and Technology, Saudi Arabia)

Paper 4 *Simulink-based Hardware/Software Trade-off Analysis Techniques*

Parinaz Sayyah* (Politecnico di Torino, Italy); Shahzad Ahmad Butt (Politecnico di Torino, Italy); Luciano Lavagno (Politecnico di Torino, Italy)

Paper 5 *An Optimal Multi-Processor Allocation Algorithm for High Performance GPU Accelerators*

Yaser Jararweh (Jordan University of Science and Technology, Jordan); Shadi AlZubi* (Jordan University of Science and Technology, Jordan); Salim Hariri (University of Arizona, USA)

Paper 6 *An Efficient DELOTS Algorithm for Low Leakage Current at Nano-Scale Transistor*

Abdoul Rjoub* (Jordan University of Science and Technology, Jordan); Shihab Ahmed Kattab (Baker Hughes Incorporated, UAE); Hassan Almanasrah (Jordan University of Science and Technology, Jordan)

10:30-12:30 IT Applications & Services 2

Small Aud.

Session Chair: Saleh Al-ogily, Vice President, Al Balqa Applied University

Session Co-chair: Sulieman Bani-Ahmad, Al-Balqa Applied University

Paper 1 *Proposed Novel Solution to Improve Medication Adherence for Cardiac Patients*

Islam Qudah* (University of Technology Sydney, Australia); Peter Leijdekkers (University of Technology, Sydney, Australia); Valérie Carole Gay (University of Technology Sydney, Australia)

Paper 2 *Ubiquitous GPS Vehicle Tracking and Management System*

Iman AlMomani* (The University of Jordan, Jordan); Nour Alkhalil (The University of Jordan, Jordan); Enas Ahmad (The University of Jordan, Jordan); Rania Jodeh (The University of Jordan, Jordan)

Paper 3 *A Generic Model for Universal Data Storage and Conversion*

Andreas Unterweger* (Salzburg University of Applied Sciences, Austria); Bernadette Himmelbauer (Salzburg University of Applied Sciences, Austria); Simon Kranzer (Salzburg University of Applied

Sciences, Austria); Peter Ott (Salzburg University of Applied Sciences, Austria); Robert Merz (Salzburg University of Applied Sciences, Austria); Gerhard Jöchtl (Salzburg University of Applied Sciences, Austria)

Paper 4 *Combating Arabic Web Spam Using Content Analysis*
Mohammed Al-Kabi (Yarmouk University, Jordan); Heider Wahsheh* (Yarmouk University, Jordan); Ahmed F. Eroud (Yarmouk University, Jordan); Izzat M. Alsmadi (Yarmouk University, Jordan)

Paper 5 *E-government in Jordan: Strengths, Weakness, Opportunities, and Challenges*
Tamara Almarabeh (The University of Jordan, Jordan)

12:30-02:00 Lunch

*University
Restaurant*

**02:00-03:00 Keynote Speech 4
Ziyad Salameh**

Large Aud.

Director of the Center for Electric Car and Renewable Energy,
University of Massachusetts Lowell
Vehicle to Electric Grid (V2G) Technology
Session Chair: Muwaffaq Al-Omouh, Dean, Hijjawi Faculty for
Engineering Technology, Yarmouk University

03:00-03:30 Coffee Break

*Entrance
Hall*

03:30-05:30 Communication & Networking 3

Large Aud.

Session Chair: M. K. Abdulaziz, The University of Jordan
Session Co-chair: Iman Almomani, The University of Jordan
Paper 1 *Subspace Compressive Sensing for Beam-formed
Cooperative Wireless Sensor Networks*

Jaleel B. Mughal (Staffordshire University, United
Kingdom); Khawza I. Ahmed (United International
University, Bangladesh); Abdel hamid Soliman
(Staffordshire University, United Kingdom);
Mohammad N Patwary* (Staffordshire University,
United Kingdom)

Paper 2 *New Packet Fields for Content Aware Classification*
Radu Miruta* (Polytechnic University of Bucharest,
Romania); Cornelia-Ionela Badoi (Politehnica
University of Bucharest, Romania); Eugen Borcoci
(University POLITEHNICA of Bucharest (CCSRST),
Romania)

Paper 3 *Study of Chaotic Behavior in a Nonlinear Piezoelectric
Resonator*

Messai Abderraouf* (University of Constantine,
Algeria); Menacer Ouassim (University of Constantine,
Algeria); Aris Skander (University of Constantine,

Algeria); Mokhtari Hatem (University of Constantine, Algeria); Malek Benslama (University of Mentouri, Algeria)

Paper 4 *On the Effect of Nodes Density on the Performance of the LAR-1P Route Discovery Algorithm*

Hussein Ismail Al-Bahadili* (Petra University, Jordan);
Ali Maqousi (University of Petra, Jordan)

03:30-05:30 Electrical Power 3

Session Chair: Mazen Abdel-Salam, Assuit University

Session Co-chair: Nathir Rawashdeh, German Jordanian Univ.

Paper 1 *Optimal Tuning of OLTC and RPCE to Improve Power System Voltage Stability Based on Ant Colony*

Mohsen Mohammadian (Shahid Bahonar University of Technology, Iran)

Paper 2 *Probabilistic Approach in Evaluation of Back-flashover in Lushan-Deilaman 230KV Double Circuit Transmission Line*

Saeed Mohajer Yami* (University of Tehran, Iran);
Amir Shayegani Akmal (University of Tehran, Iran);
Amin Mohseni (University of Tehran, Iran); Alireza Majzoobi (University of Tehran, Iran)

Paper 3 *Design and Analysis of Amorphous Silicon (a-Si:H) Optimized Microstructure Thin Film Photovoltaic Cell*

Jony C Sarker* (Bangladesh University of Engineering and Technology, Bangladesh); Abdullah Mondol (Bangladesh University of Engineering and Technology, Bangladesh); Md. Razzak (Bangladesh University of Engineering and Technology, Bangladesh); Prosanta Paul (Khulna University of Engineering and Technology, Bangladesh); Mohammad Alam (Bangladesh University of Engineering and Technology, Bangladesh)

Paper 4 *Voltage Flicker Estimation Using ESPRIT-Based Method*

Eyad Feilat (Sultan Qaboos University, Oman)

Paper 5 *Electricity Sector Reform in Africa: Convergence and Diversity of Approaches*

E Chikuni* (University of KwaZulu Natal, South Africa); Nelson Ijumba (University of Kwazulu-Natal, South Africa); Akshay Saha (University of KwaZulu Natal, South Africa); Leon Chetty (University of KwaZulu Natal, South Africa); Ogbonnaya Inya Okoro (Michael Okpara University of Agriculture, Umudike, Nigeria)

Medium Aud.

03:30-05:30 Intelligent Systems 2

Session Chair: Nadim Obied, Dean, King Abdullah II School of Information Technology, University of Jordan

Session Co-chair: Hanno Hildmann, Etisalat BT Innovation

Small Aud.

Centre

Paper 1 *A Survey on Home-based Technologies for Detecting Behavioural Abnormalities and Cognitive Decline in Elderly People*

Nidal AlBeiruti* (University of Glamorgan, United Kingdom); Khalid Al-Begain (University of Glamorgan, United Kingdom)

Paper 2 *Assistance and Supervisory Control of Operators in Complex Human-Process-Interaction*

Dirk Söffker (University Duisburg-Essen, Germany); Gregor Flesch (University of Duisburg-Essen, Germany); Xingguang Fu (University of Duisburg-Essen, Germany); Andreas Hasselberg (German Aerospace Center (DLR), Germany); Marcel Langer* (University of Duisburg-Essen, Germany)

Paper 3 *A Statistical Approach for Estimating User Satisfaction in Spoken Human-Machine Interaction*

Alexander Schmitt* (University of Ulm, Germany); Benjamin Schatz (University of Ulm, Germany); Wolfgang Minker (University of Ulm, Germany)

Paper 4 *Explanation Architecture for Companion Systems*

Florian Nothdurft* (Ulm University, Germany); Wolfgang Minker (University of Ulm, Germany)

Paper 5 *The srBPA Ontology: A Formal Representation of the Riva-based Business Process Architecture*

Rana Yousef* (The University of Jordan, Jordan); Mohammed Odeh (Leader of Software Engineering Research Group, United Kingdom)

07:30-09:30 Gala Dinner

*Marriot
Amman*

Day 3: Thursday

December 8, 2011

8:00 A.M. – 12:30 P.M.

Time	Item	Place
08:00-12:30	Registration	<i>Entrance Hall</i>
08:30-09:30	Keynote Speech 5 Chris Guy Professor of Electronic Engineering at the University of Reading, UK <i>The Future of the Internet</i> Session Chair: Omar Al-Jarrah, Vice President, Jordan University of Science and Technology	<i>Large Aud.</i>
09:30-10:30	Keynote Speech 6 Ana Perez-Neira Vice Rector for Research, Technical University of Catalonia <i>Spatial Spectrum Sharing in Wireless Communications</i> Session Chair: Hala Khyami-Horani, VP Scientific Research, Graduate Studies and Quality, The University of Jordan	<i>Large Aud.</i>
10:30-10:45	Coffee Break	<i>Entrance Hall</i>
10:45-12:30	Panel Discussion 2 The Potential of Electronic Industry in Jordan: Reality or Myth Moderator: Loay Khalaf, the University of Jordan Panelists: <ul style="list-style-type: none">• Zaid Ayoub, JTronix, IrisGuard• Basem Khateeb, KADDB• Firas Madi, Controcom/BCI	<i>Large Aud.</i>
10:45-12:30	Control Systems/Electrical Power Session Chair: Lutfi Al-Sharif, The University of Jordan Session Co-chair: Mohammed Salah, Hashemite University Paper 1 <i>Accurate 3D Position Control of Articulated Manipulators</i> Rami A. Maher (Isra University, Jordan) Paper 2 <i>Smooth Variable Structure Filter for Pneumatic System Identification</i> Mohammad Al-Shabi (Philadelphia University, Jordan); Ashraf Saleem (Philadelphia University, Jordan); Tarek A. Tutunji* (Philadelphia University,	<i>Medium Aud.</i>

Jordan)

Paper 3 *Human Guidance and Supervision of a Manufacturing System for Semi-Automated Production*

Marcel Langer* (University of Duisburg-Essen, Germany); Dirk Söffker (University Duisburg-Essen, Germany)

Paper 4 *Predictive Simultaneous Power and Current Control in a Three-phase Direct Matrix Converter*

Haitham Abu-Rub (Texas A&M University at Qatar, Qatar); Patricio Cortes (Universidad Tecnica Federico Santa Maria, Chile); Moin Ahmed* (Texas A&M University, Qatar); Atif Iqbal (Qatar University, Qatar)

Paper 5 *Evaluation of Electrically Stressed Composite Insulators Contaminated by Dry and Wet Sand*

Mohamad Al-Zoubi (Yarmok University, Jordan)

10:45-12:30 Internet Science/Security

Small Aud.

Session Chair: Wesam Almobaideen, Manager, Computer Center, The University of Jordan

Session Co-chair: Ali Maqousi, Petra University

Paper 1 *Novice User Perception of e-Services: A Study in the Egyptian Public Sector*

Ann Nosseir* (Institute of National Planning, British University in Egypt, Egypt); Sotirios Terzis (The University of Strathclyde, United Kingdom)

Paper 2 *Tactile Web Navigator Device for Blind and Visually Impaired People*

Alaeldin Ahmed (University of Khartoum, Sudan); Mustafa Yasin* (University of Khartoum, Sudan); Sharief Babiker (University of Khartoum, Sudan)

Paper 3 *Privacy and Security for RFID Access Control Systems Without Back-end Database*

Malek Al-Zewairi* (University of Jordan, Jordan); Ja'far Alqatawna (University of Jordan, Jordan); Omar Al-Kadi (University of Jordan, Jordan)

Paper 4 *Permutated Recovering Unused Quantum Bits*

Abdulla Abuayash* (Central Bank of Jordan, Jordan); Naim Ajlouni (Al-Balqa University, Jordan)

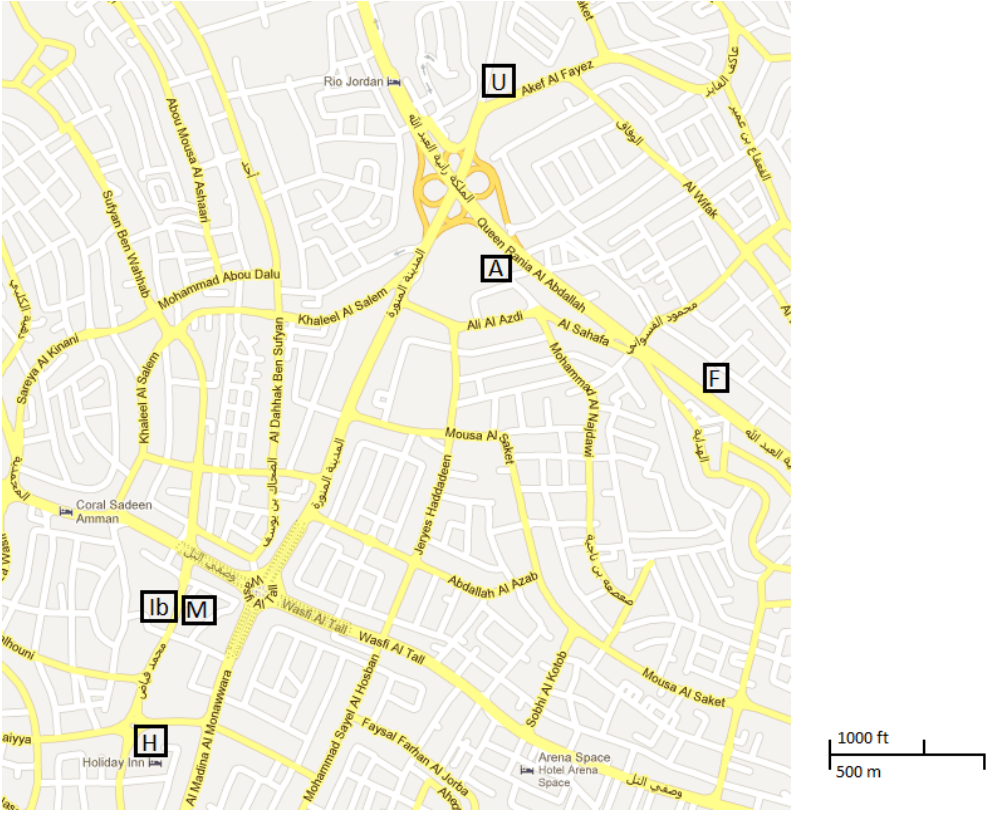
12:30-08:00 Trip to the Dead Sea (Lunch & Swim)

Mövenpick

The Dead Sea Mövenpic has a beach on the Dead Sea and has several swimming pools; two of them are heated in December (Infinity Pool and the Winter Pool). If weather permits, you can swim in the Dead Sea or in the swimming pools.

If you plan to swim, bring your swimwear. The hotel provides one towel per person.

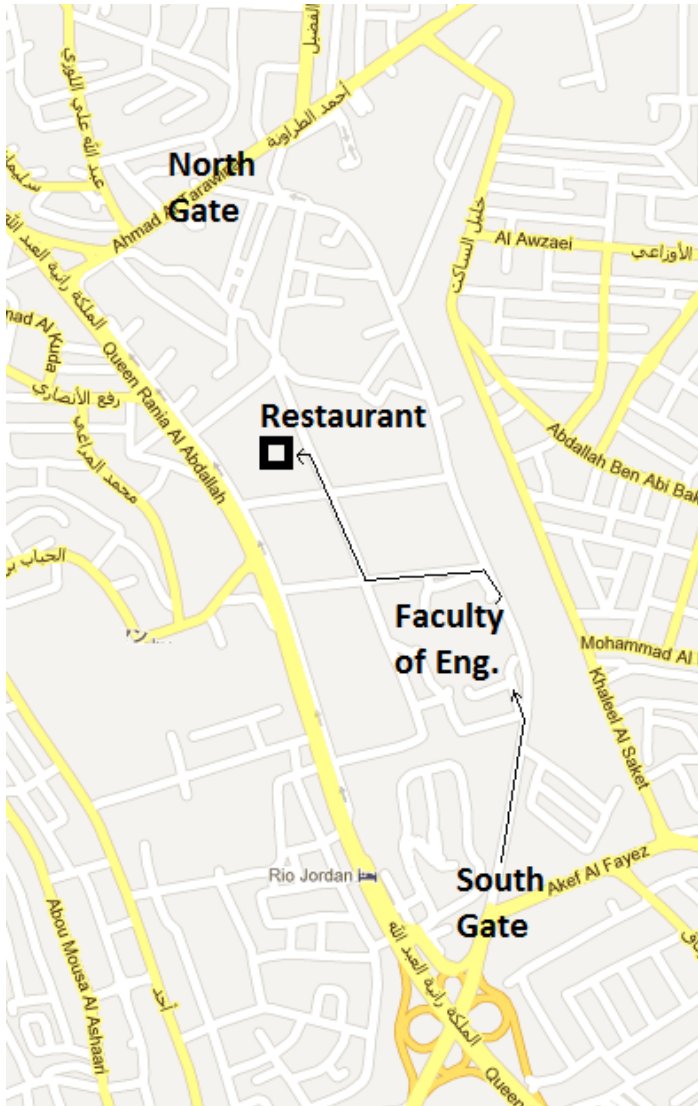
Area Map



Index:

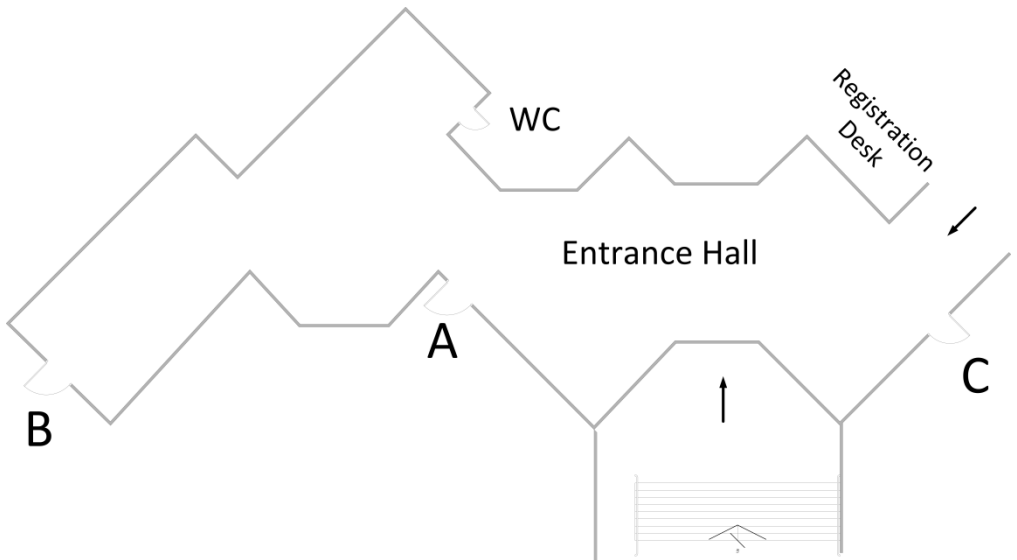
U	The University of Jordan, South Gate	الجامعة الأردنية، البوابة الجنوبية
A	Arena Hotel	فندق الارينا
F	Fanar Hotel	فندق الفنار
Ib	Ibis Hotel	فندق ايبيز
M	Amman Mall	مول عمان
H	Holiday Inn Hotel	فندق هوليدي إن

The University of Jordan Map



- The Faculty of Engineering and Technology (FET) is about 700 m north of the South Gate. FET is on the left side of the Main University Street. There is an old jet fighter at the entrance of FET parking lot. The venue entrance is at the northern edge of the parking lot.
- The restaurant is about 800 m north of FET. On the Main University Street, travel north, take the first left, travel west and at the cross road, take right, the university restaurant is 400 m from this cross road on the left side of the Central University Road.

Faculty of Engineering and Technology Map Auditoriums Area



Index:

A	The Large Auditorium, Saeed Al-Mofti Auditorium	مدرج سعيد المفتي
B	The Medium Auditorium	المدرج الأوسط
C	The Small Auditorium	المدرج الصغير

- When you enter the FET auditoriums area from the main faculty entrance, the Large and Medium Auditoriums are on the left and the Registration Desk and the Small Auditorium are on the right.
- The Entrance Hall has wireless internet access. You need to set the proxy IP address to 10.1.1.2, Port 80 to get free internet access.

Notes