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الهندسة الكهربائية والإلكترونية الأردنية الدولي السادس
The 6th Jordanian International Electrical & Electronics Engineering Conference 2005

Computer Engineering

Biomedical Engineering

Power & Machines

Automation & Drives

Electronics

Communications & Signal Processing

البرنامج
Program

عمان - الأردن (15 - 17 تشرين الثاني 2005)
Amman - Jordan (15-17 November 2005)



The

First Day: Tuesday, 14 March 2006

- 08.00 – 09.30 Registration
 09.30 – 10.00 Opening Session
 10.00 – 10.45 Exhibition Opening
 10.45 – 11.00 Coffee Break

Time : 11.00 – 12.00	Invited Speaker	Chair: Dr. Ibrahim Ghareeb
Secure & Assured Networks		
<i>Samir Saber, Juniper</i>		

Time :12.00 – 01.30	Hall A, 1st Session: Communications 1	
Chair: Dr. Moh'd Al-Ibrahim		
Paper ID	Title	
92	Using Sinusoidal Model to Implement Sinusoidal Speech Coder with Speech Enhancer <i>Ibrahim M. Mansour, Samer J. AL-Abed</i>	
237	Lower Bound and Approximate Expressions for the Outage Probability in Noisy Rayleigh-Faded Lognormal-Shadowed Channels <i>Mahmoud H. Ismail, Mustafa M. Matalgah</i>	
238	Optimal Code Rates and Channelization Codes Assignment for Throughput Maximization in Downlink WCDMA/TDD <i>Mahmoud H. Ismail, Mustafa M. Matalgah</i>	
239	Compact Expressions for the Bit Error Rate of M-ary Orthogonal Signals with Square-Law Combining Under Non-Identical Fading <i>Redha M. Radaydeh, Mustafa M. Matalgah</i>	

Time : 12.00 – 01.30	Hall B, 1st Session: Power and Machines 1	
Chair: Prof. Hisham Hamdan		
Paper ID	Title	
204	Application of Artificial Neural Network to Control the Reactive Power <i>Maamoon Al-Kababjie, Maha A. Al-Fleah</i>	
209	Fault Simulation of the North Iraqi HV Network for Matching Distance Protection Devices <i>Mamoon F. Al-Kababjie, Dhiya A. Al-Nimma, Hussein I. Zaynal</i>	
335	A New Method to Enhance the Performance of Auto-Reclosing Scheme in Iraqi Transmission Networks <i>Nathim Sh. Rasool, M. F. Al-Kababjie</i>	
337	Industry Best Practice In Managing Oscillatory Stability <i>D.H. Wilson, H. Nababteh</i>	

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Time : 12.00 – 01.30		Hall C, 1 st Session: DSP
Chair: Dr. Samir Shaltaf		
Paper ID	Title	
58	Concentration Profile Visualization Based on Infra Red Tomography <i>Sallehuddin Ibrahim, Mohammad Amri Yunus</i>	
236	FPGA Based Wavelet Branch Hopping System <i>Hussain K. Chaiel, Abdul-Karim A-R. Kadhim</i>	
348	Image Retrieval Using Cross-Correlation Applied on the Coefficients of Daubechies' Wavelets on the Basis of Sub-Image Matching <i>Noor Al Aidy, Moussa Habib, Sami Serhan</i>	
351	DSP-PML Algorithm for Truncating FDTD Simulations <i>Omar Ramadan</i>	

01.30 – 02.30 Lunch Break (sponsored By Juniper)

Time : 02.30 – 03.30		Invited Speaker	Chair: Eng. Abdelmajeed Bashaireh
A Pragmatic Approach Towards an Integrated Communication Services Operator Building Momentum for Growth			
<i>Jean Marie Garcia, Jordan Telecom</i>			

03.30 – 03.45 Coffee Break

Time : 03.45 – 05.15		Hall A, 2 nd Session: Computer Engineering 1	
Chair: Prof. Walid Abu-Sofa			
Paper ID	Title		
121	A New Approach to Design and Implement a Discrete Chaotic Generator (Henon map) based on Field Programmable Gate Array (FPGA) <i>Mohammed A. Aseeri, M. I. Sobhy, Adanan M. Affendi</i>		
218	Micro Web-Servers for Remote Device Control <i>Radwan Tahboub, V. Lazarescu, Elayan Abu-Gharbyeh</i>		
296	Software Delivery Delay Factors Estimation <i>Basit Shahzad, Najamus Saqib</i>		
322	EVAS: a Novel Secured Anonymous E-Voting Scheme <i>Ra' ka Chouaya, Sihem Guemara El Fatmi, Noureddine Boudriga</i>		

Time :03.45 – 05.15		Hall B, 2 nd Session: Fuzzy & Neural Systems	
Chair: Dr. Raed Abu Zitar			
Paper ID	Title		
108	Optimal Brain Surgeon Pruning of Neural Network Models of Manufacturing Processes <i>Bahaa Ibraheem Kazem, Ali Khudhair Mutlag</i>		
113	Fuzzy Logic Operation Control for PV-Wind-Diesel-Battery Hybrid Energy System <i>Emad A. Sweelem, Abd El-Shafy A. Nafeh, Faten H.Fahmy, Hassan Dorha, M. Farouk</i>		
197	An ANN-Based Automatic Recognition Algorithm for Analog Modulated Signals <i>Y. M. Abbosh, B. Sh. Mahmood, K. H. Sayidmarie</i>		
388	Mammogram Image Segmentation Using Morphological Thresholding Method <i>Ayman A. AbuBaker, Musbah J. Aqel, R.S.Qahwaji, Mohmmad H. Saleh</i>		

Second Day: Wednesday, 15 March 2006

Time : 09.00 – 10.00	Invited Speaker	Chair: Eng.Wijdan Rabadi
Emerging Hybrid and Electric Automotive Systems		
<i>Prof. Philip Krein, IEEE</i>		

10.00 –10.30 Coffee Break

Time : 10.30 –12.00	Hall A, 3 rd Session: Communications 2
Chair: Dr. Maher Dababneh	
Paper ID	Title
287	Third Generation Mobile Radio System Performance Enhancement Using DS-CDMA <i>Siddeeq Y. Ameen, Muhaned I. Al-Farras, Hiam Al-Yasiri</i>
358	Multi-user Detection of Modulus -Precoded DS/CDMA Signals in a Channel with Time-Varying Attenuation <i>Abdul Karim, S. Al-Bayati</i>
367	A Pre-Processed Turbo-Coded CDMA System Using Decorrelation in Fading Channels <i>Farid S. Al-Hosarey, Atef A. Elazm, Mohamed F. Madkour</i>
368	Iterative WCDMA Radio Network Design in Case of Multimedia Traffic and Transmit Antenna Arrays <i>Mohamed F. Madkour, Nermin A. Mohamed,</i>

Time : 10.30 – 12.00	Hall B, 3 rd Session: Computer Engineering 2
Chair: Dr. Sameer Batayneh	
Paper ID	Title
226	Home Automation Using Micro Web-Servers <i>Radwan Tahboub, V. Lazarescu, Elayan Abu-Gharbyeh</i>
293	Optimized Solution to Shortest Job First by Eliminating the Starvation <i>Basit Shahzad, Muhammad Tanvir Afzal</i>
356	A Novel Eight-Transistor Memory Cell for Low-Power High-speed Embedded SRAM <i>Saleh Abdel-hafeez</i>
391	Infra Structured QoS Routing in Mobile Ad hoc Networks <i>Jamal N. Al-Karaki</i>

12.00 –12.30 Coffee Break

About JEA

Jordan Engineers Association, JEA, was first incorporated in 1958 under the name "Jordan Engineers Society". The Association holds its current name since 1972. JEA is considered the largest professional association in Jordan . This is apparent not only by the large number of its current members (40,000), but also by the annual influx of its new members. JEA also incorporates a large number of Arab and foreign engineers practicing in Jordan.

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واللجنة التحضيرية لمؤتمر الهندسة الكهربائية والإلكترونية الأردني الدولي السادس

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التاريخ : 2006/3/16

الساعة 10.30 – 2.00

المكان فندق الرويال – عمان

قاعة جراسيا

رسوم المشاركة في ورشة العمل للشخص الواحد

25 دينار أردني للأفراد والمؤسسات

15 دينار أردني للطلبة

Time :12.30 – 02.00	Hall A, 4 th Session: Antenna Technology & Propagation 1
Chair: Dr. Nihad Deeb	
Paper ID	Title
71	Elliptic Antennas Array Synthesis Using Genetic Algorithms <i>M. Abri, N. Boukli-hacene and F. T. Bendimerad</i>
164	Propagation Modeling of the Ground Waves Using the Parabolic Equation <i>Mohammad H. Ahmad, Mohamed K. Abdelazeez</i>
194	A New Technique for Side Lobe Canceling in the Tracking Radar Antenna Pattern <i>Jafar Rammadan Mohammed, Khalil Hassan Sayidmarie</i>
199	Radiation by Slotted Elliptical Antenna Coated by a Concentric Isorefractive Elliptical Shell <i>M.I. Hussein, A-K. Hamid</i>
270	Log-Periodic Dish Reflector Antenna <i>Rasim A. A, Mona H. R</i>

Time : 12.30 – 02.00	Hall B, 4 th Session: Power and Machines 2
Chair: Prof. Deifallah Dlabeeh	
Paper ID	Title
42	Short-Term Forecasting of Jordanian Electricity Demand Using Particle Swarm Optimization <i>Mohammed El-Telbany, Fawwaz El-Karmi</i>
146	Small-Signal Stability Monitoring Via Prony Analysis <i>E. A. Feilat</i>
195	Insulators Pollution in Jordan <i>Yousif El-Tous</i>
144	Line Injection Technique for Harmonic Reduction in a Three-phase Bridge Controlled Converter <i>Basil M. Saied , Rakan Kh. Antar</i>

02.00 – 03.00 Lunch Break (sponsored By Jordan Telecom)

Time : 03.00 – 04.00	Invited Speaker	Chair: Eng. Hamed Nababteh
Blackouts Between Resolve and Fate		
<i>Dr. Hisham Othman, ABB</i>		

Third Day: Thursday, 16 March 2006

Time : 09.00 – 10.00	Invited Speaker	Chair: Prof. Jameel Ayoub
Voice Over IP – Technology, Trends and Evolution		
<i>Eng. Sherif Bahaa El-Din, ALCATEL Egypt</i>		

10.00 –10.30 Coffee Break

Time :10.30 – 12.00	Hall A, 5th Session: Antenna Technology & Propagation 2
Chair: Prof. Mohamed K. Abdelazeez	
Paper ID	Title
198	Reduction of Side Lobe Structure in Slotted Waveguide Array by 4-Element Auxiliary Antenna Technique <i>Abdullah H. Aboud, Khalil H. Sayidmarie</i>
200	Microwave Processing of Time Dependent Dielectric Material: Experimental and Modeling <i>M.I. Hussein, Adel Hammami, Mohamed Ali</i>
201	The Effect of the Height and Speed of the Airplane Carrying the Focused Synthetic Aperture Radar on the Azimuth Resolution <i>Khalil H. Sayidmarie, Safwan Emad Abdul-Fatah</i>
240	An Efficient MPI Parallel Algorithm for the Finite Difference Time Domain Simulations <i>Omar Ramadan, Oyku Akaydin</i>

Time :10.30 – 12.00	Hall B, 5th Session: Biomedical Engineering
Chair: Dr. Bassam Al-Aseer	
Paper ID	Title
130	Vocal Command System for A Wheelchair of A Disabled Person <i>Mohamed Fezari, Mounir Bousbia-Salah, Mouldi Bedda</i>
131	An Electronic Mobility System for Blind and Visually Impaired People <i>Mounir Bousbia-Salah, Mohamed Fezari</i>
342	A Compartmental Cardiovascular Model with Congestive Heart Failure Therapy <i>Mohamed E. Hassan, Mohamed A. EL-Brawany, Mohamed M. Sharaf</i>

12.00 –12.30 Coffee Break

Time :12.30 – 02.00	Hall A, 6th Session: Electronics
Chair :Mazen Abdel hameed	
Paper ID	Title
67	Modeling of Optoelectronic Circuits <i>Vladimir Ivanovich Kornichuk, Majed Omar Al-Dwairi</i>
278	Anew Structure for Cascaded Single-Stage Distributed Amplifier Using Proposed Active Inductor Loads <i>Ali A. Ali, Azad R. Kareem</i>
386	Process Development of Single-Electron Transistors (SETs) Based on Silicon-on-Insulator (SOI) <i>Amiza Rasmi, Uda Hashim</i>

Time : 12.30 – 02.00	Hall B, 6th Session: Power & Machines 3
Chair: Dr. Eyad Abu Feilat	
Paper ID	Title
210	Modeling & Simulation of Synchronous Machine Controlled By Pid Control for the Reactive Power Compensation <i>Maamoon F. Al-Kababji, Ahmed Nasser B. Al-Sammak</i>
234	Assessment of Stray Flux in Single-Strip Tester <i>Aisyah Hartini Jahidin, Chua Pei Shan, Wan Nor Liza, Wan Mahadi</i>
242	Auto-Reclosing Protection Considerations with Tapped Transformer Bank <i>Nathim Sheyt Rasool , M. F. Al-Kababjie</i>
227	Tracking of the Fundamental Frequency in Sensorless Induction Motor Drives <i>Azzeddine Ferrah, Jihad M. Al-Khalaf, Abdulkader Tami , Mounir Bouzguenda</i>

02.00 –03.00 Lunch Break (sponsored By FastLink)

Time : 03.00 – 04.30	Seminar	Chair: Prof. Hisham Hamdan
Static Var Compensator System (SVC)		
<i>Dr. Wolfgang Herger, siemens</i>		

04.30 – 05.00 Closing Sessions