

2016 ICCES

2016 Eleventh International Conference on Computer Engineering & Systems

TRIUMPH Hotel, Cairo, Egypt

December 20th - 21st, 2016

Final Program

2016 ICCES

Program at a Glance

Tuesday December 20th, 2016

08:30 - 09:00	Registration	
09:00 - 09:30	Opening Session (Hall I)	
09:30 - 11:00	Plenary Talk (I) (Hall I)	
11:00 - 11:15	Coffee Break	
11:15 - 13:15	PC1: Parallel and Cloud Computing I (Hall I)	CN1: Computer Networks I (Hall II)
13:15 - 14:30	Lunch (Restaurant)	
14:30 - 16:45	PC2: Parallel and Cloud Computing II (Hall I)	VA: Video and Audio Processing (Hall II)
16:45 - 17:00	Coffee Break	
17:00 - 19:00	BM: Biomedical Engineering (Hall I)	SE: Software Engineering (Hall II)

Wednesday December 21st, 2016

09:00 - 09:30	Registration	
09:30 - 11:00	Plenary Talk (II) (Hall I)	
11:00 - 11:15	Coffee Break	
11:15 - 13:15	CA: Computer Architecture (Hall I)	AD1: Ad-hoc and Wireless Sensor Networks I (Hall II)
13:15 - 14:30	Lunch (Restaurant)	
14:30 - 16:30	CN2: Computer Networks II (Hall I)	AD2: Ad-hoc and Wireless Sensor Networks II (Hall II)
16:30 - 16:45	Coffee Break	
16:45 - 18:00	CS: Control Systems (Hall I)	MS: Modelling and Simulation (Hall II)

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Plenary Talks

Plenary Talk (I) (Hall I)			
Tuesday December 20th, 2016		09:30 - 11:00	
1	Position, Location and Navigation Systems Research, Innovation, Applications and Future Vision	Dr. Aboelmagd Noureldin Royal Military College of Canada	Canada
Panel:			

Plenary Talk (II)			
(Hall I)			
Wednesday December 21st, 2016			09:30 - 11:00
2	Big Sensed Data in the Internet of Things	Dr. Hossam Hassanein Queen's University	Canada
Panel:			

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Technical Sessions Map

Technical Session	Paper ID						
PC1: Parallel and Cloud Computing I	57	130	61	5	93	52	
CN1: Computer Networks I	48	43	30	67	128	83	
PC2: Parallel and Cloud Computing II	122	66	42	54	56	14	125
VA: Video and Audio Processing	119	88	34	76	96	116	77
BM: Biomedical Engineering	107	101	104	78	79	123	
SE: Software Engineering	134	7	15	136	90	98	
CA: Computer Architecture	31	94	39	133	1	60	
AD1: Ad-hoc and Wireless Sensor Networks I	28	37	44	36	49	16	
CN2: Computer Networks II	32	19	69	120	121	84	
AD2: Ad-hoc and Wireless Sensor Networks II	81	3	4	64	65	40	
CS: Control Systems	68	11	51	112			
MS: Modelling and Simulation	135	62	6	124			

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Technical Sessions

PC1: Parallel and Cloud Computing I (Hall I)

Tuesday December 20th, 2016

11:15 - 13:15

Panel:

57	Empirical Assessment for Security Risk and Availability in Public Cloud Frameworks	Noha E. El-Attar, Wael A. Awad, Fatma A. Omara	Egypt
130	Virtualization Security, a Survey	Omnia AbdElRahem, Ayman Bahaa, Ayman Taha	Egypt
61	A Framework for Virtual Machine Admission Control in Cloud Environment	Omnia AbdElRahem, Ayman Bahaa, Ayman Taha	Egypt
5	Automatic Cloud's Cluster Sizing Controlling Cloud SLA Violation	Nour M. Azmy, Islam A.M. El-Maddah, Hoda K. Mohamed	Egypt
93	Network-Aware Resource Management Strategy in Cloud Computing Environments	Marwa A. Abdelaal, Gamal A. Ebrahim, Wagdy R. Anis	Egypt
52	A Clustering Approach for Anonymizing Distributed Data Streams	Mona A. Mohamed, Magdy H. Nagi, Sahar M. Ghanem	Egypt

CN1: Computer Networks I (Hall II)

Tuesday December 20th, 2016

11:15 - 13:15

Panel:

48	Collaborative Approach for a MANET Intrusion Detection System using Multilateration	Jeronymo M. A. Carvalho, Paulo C. G. Costa	USA
43	RGSS-Negotiation: A Genetic-Based Approach for Web Service Security Negotiation	Amira Abdelatey, Mohamed Elkawkagy, Ashraf El-Sisi, Arabi Keshk	Egypt
30	Energy Efficient dual layer MAC Protocol with Adaptive Layer Duration for WSN	Khalil F. Ramadan, M. I. Dessouky, Mohammed Abd-Elnaby, Fathi E. Abd El-Samie	Egypt
67	Four-layer Routing Protocol with Location based Topology Control of Active Nodes in WSN	Abd Elwahab Fawzy, Asmaa Amer, Mona Shokair, Waleed Saad	Egypt
128	Software Defined Networking Concepts and Challenges	Mohammad Mousa, Ayman Bahaa-Eldin, Mohamed Sobh	Egypt
83	Contention-based MAC Protocol in UWSNs: Slotted_CS_ALOHA Proposed Protocol	Ehab M. Khater, Dina M. Ibrahim, Mohamed T. Faheem Saidahmed	Egypt

PC2: Parallel and Cloud Computing II (Hall I)

Tuesday December 20th, 2016

14:30 - 16:45

Panel:

122	Efficient Single-Linkage Hierarchical Clustering based on Partitioning	Mohamed A. Mahfouz	Egypt
66	An Enhanced Genetic Algorithm-Based Timetabling System with Incremental Changes	A. F. AbouElhamayed, Abdarhman S. Mahmoud, Tarek T. Shaaban, Cherif Salama, A. H. Yousef	Egypt
42	A GPU Based Genetic Algorithm Solution for the Timetabling Problem	Ahmed H. Yousef, Cherif Salama, Mohammad Y. Jad, Tarek El-Gafy, Mona Matar, Suzanne S. Habashi	Egypt
54	Accelerated Processing Unit (APU) Potential N-body Simulation Case Study	Hassan Youness, Mohamed Moness, Omar Shaaban, and Aziza Hussein	Egypt
56	A Parallel Clause Oriented Algorithm For Solving SAT	Yasmeen Abd El Khalek, Mona Safar, M. Watheq El-Kharashi	Egypt
14	Clustering of XML Documents Based on Structure and Aggregated Content	Nermeen Gamal Rezk, Amany Sarhan, Alsayed Algergawy	Egypt
125	A Novel Near-Optimum Distributed Scheduling Algorithm for mmWave Mesh Networks	Muhammad K. Ibrahim, Mahmoud H. Ismail, M. Watheq El-Kharashi	Egypt

VA: Video and Audio Processing (Hall II)

Tuesday December 20th, 2016

14:30 - 16:45

Panel:

119	An Algorithm for Pre-processing and Segmentation of Mammogram Images.	Naglaa S. Ali Ibrahim , Naglaa. F. Soliman, Mahmoud Abdallah, Fathi E. Abd El-Samie	Egypt
88	Sparse Random Encoder For Age Invariant Face Recognition	Ehab Essa	Egypt
34	A New Object Recognition Framework based on PCA, LDA, and K-NN	Asmaa A. M. Hagar, Mahmoud A. M. Alshewimy, Mohamed T. F. Saidahmed	Egypt
76	A New Method to Remove Salt & Pepper Noise in Magnetic Resonance Images	Hanafy M. Ali	Egypt
96	Wavelet-Enhanced Detection of Small/Slow Object Movement in Complex Scenes	M. N. Al-Berr M. A.-M. Salem H. M. Ebeid M. F. Tolba, A. S. Hussein	Egypt
116	Noise-Robust Speech Recognition using Spectrogram Masking	Ahmed Mostafa Gouda, Mohamed Tamazin, Mohamed Khedr	Egypt
77	Sequential-Based Action Recognition Technique Based on Homography of Intereseted SIFT Keypoints	I.M. EL-Henawy, Hamdi A. Mahmoud, Kareem Ahmed	Egypt

BM: Biomedical Engineering (Hall I)

Tuesday December 20th, 2016

17:00 - 19:00

Panel:

107	Comparative Study for Various DNA Based Steganography Techniques with the Essential Conclusions about the Future Research	Ghada Hamed, Mohammed Marey, Safaa Amin El-Sayed, Mohamed Fahmy Tolba	Egypt
101	Microwave SAR as A Tool for tumor Determination.	MAZHAR B. TAYEL, HAZEM A. ELFAHAM	Egypt
104	A Hybrid Analytical Hierarchical Process and Deep Neural Networks Approach for Classifying Breast Cancer	Taysir Hassan A. Soliman, Randa Mohamed, Adel A. Sewissy	Egypt
78	A Method for Contactless Palm ROI Extraction	Ahmed S. ELSayed, Hala M. Ebeid, Mohamed Roushdy, Zaki T. Fayed	Egypt
79	Iterative Approach for Clustering Based on Several Linkage Strategies Applied To Gene Expression Analysis	Mohamed A. Mahfouz	Egypt
123	A Knowledge Management Framework for Imbalanced Data using Frequent Pattern Mining Based on Bloom Filter	Sally M. El-Ghamrawy	Egypt

SE: Software Engineering (Hall II)

Tuesday December 20th, 2016

17:00 - 19:00

Panel:

134	Feature-Based Sentiment Analysis in Online Arabic Reviews	Laila Abd-Elhamid, Doaa Elzanfaly	Egypt
7	Automatic Summarization of the Arabic documents using NMF : A preliminary study	A. A. Mohamed	Saudi Arabia
15	Survey of String Similarity Approaches and The Challenging Faced by The Arabic Language	Sumayh S. Aljameel , James D. O'Shea, Keeley A. Crockett, Annabel Latham	UK
136	A Study of Spatial Machine Learning for Business Behavior Prediction in Location Based Social Networks	Ola Al Sonosy, Sherine Rady, Nagwa Lotfy Badr, Mohammed Hashem	Egypt
90	Enhancing Requirements Prioritization Based on A Hybrid Technique	Mokhtar A. Abou-Elseoud, Eman S. Nasr, Hesham A. Hefny	Egypt
98	A Conceptual Model for E-government Adoption in Egypt	Sara EIKheshin, Noha Saleeb	Egypt

CA: Computer Architecture (Hall I)

Wednesday December 21st, 2016

11:15 - 13:15

Panel:

31	Flexible FPGA implementation of Min-Sum Decoding Algorithm for regular LDPC codes	Ahmed M. Sadek, Aziza I. Hussein	Egypt
94	Integration of Multiple Fault-Tolerant Techniques for FPGA-Based NCS Nodes	Gehad I. Alkady, Ali AbdelKader, Ramez M. Daoud, Hassanein H. Amer, Nahla A. El-Araby, M.B. Abdelhalim	Egypt
39	Speedup Higher-Order Masking of AES Using Normal Basis and SIMD	Abdulaziz Miyajan, Chun-Hsi Huang, Turki F. Al-Somani	USA
133	Fastbit-Radix Sort	Anthony Vinay Kumar S, Arti Arya	India
1	Quantum Databases, A Survey	Israa Hamouda, Ayman Bahaa, Hazem Said	Egypt
60	Another Generalized Grover Algorithm To search quantum databases by user ID	Israa Hamouda, Ayman Bahaa, Hazem Said	Egypt

AD1: Ad-hoc and Wireless Sensor Networks I (Hall II)

Wednesday December 21st, 2016

11:15 - 13:15

Panel:

28	Cluster-Based Energy-Aware Localization Algorithm for Wireless Sensor Networks	Alaa E. S. Ahmedy, Mostafa E. A. Ibrahimz	Egypt
37	Enhancing Failure Recovery in Wireless Sensor Network Based on Grade Diffusion	sherihan Abuelenin, Saad Dawood, Ahmed Atwan	Egypt
44	An Energy-Efficient Coverage Hole Detection Technique for Randomly Deployed Wireless Sensor Network	Walaa Abdellatif, Hatem Abdelkader, Mohee Hadhoud	Egypt
36	RSS-Based Indoor Positioning Utilizing FireFly Algorithm in Wireless Sensor Networks	Basem Amer, Aboelmagd Nouredin	Libya
49	Limits of relays in cascade for wireless optical communications networks	Cheikh Brahim RABANY, Ibra DIOUM, Ahmed Dooguy KORA, Zacharia DAMOUE	SENEGAL
16	CLB-AODV: A communication load balanced dynamic wireless sensor network topology management algorithm based on AODV	Randa K. Ahmed, Dina M. Ibrahim, Amany M. Sarhan	Egypt

CN2: Computer Networks II (Hall I)

Wednesday December 21st, 2016

14:30 - 16:30

Panel:

32	Strategies and Types of National Design of A Roadm Transmission Network for Universal Access	Zacharia DAMOUE, Ahmed Dooguy KORA, Ramlatou DIALLO, Cheikh B. RABANY, Samuel OUYA	SENEGAL
19	Cross-Coupled Chaotic Matched Frequency Hopping in Presence of Partial Band Noise Jamming	Ahmed E.Mansour, Walid M. Saad, Salwa H.El Ramly	Egypt
69	A Novel Vision to Mitigate Pilot Contamination in Massive MIMO-Based 5G Networks	Mahmoud M. Badr, Mostafa M. Fouda, and Adly S. Tag Eldien	Egypt
120	Dynamic Window Size of TCP for Long Term Evolution (LTE)	Saleh Abdullah, Osama Younes, Hamdy Moussa, Hatem Abdul-kader	Egypt
121	A systematized analysis process for SOA services' estimation	Nader Ghoddosi, Ricardo J. Rabelo	Brazil
84	Model-driven Test Cases Generation for Multi-Level Service Composition	Shymaa Sobhy, Mahmoud Hussein and Ashraf B. El sisi	Egypt

AD2: Ad-hoc and Wireless Sensor Networks II (Hall II)

Wednesday December 21st, 2016

14:30 - 16:30

Panel:

81	Auction Based Algorithm for Distributed Resource Allocation in Multitier-Heterogeneous Cellular Networks	N. H. Almofari, S. Kishk, F. W. Zaki	Egypt
3	An Accurate Model of Worst Case Signal to Interference Ratio for Frequency Reuse Cellular Systems	Imbaby I. Mahmoud, Osama H. Elgzzar, Sherief Hashima, H. A. Konber	Egypt
4	Analysis of Downlink Sectored Frequency Reuse Cellular Systems Combined with Different Beamforming Techniques	Osama H. Elgzzar, Imbaby I. Mahmoud, Sherief Hashima, H. A. Konber	Egypt
64	Reliable Data Transfer for Collecting Data from BLE Sensors using Smartphones as Relays to the Cloud	Amr El Mougny, Aly El-Kerdany	Egypt
65	Scheduling Algorithm for BLE Sensors Using Binary Trees to Reduce Gaps in Collected Data	Amr El Mougny, George Sedky, Mohamed Assem	Egypt
40	Performance Evaluation of Hybrid ACE-PTS PAPR Reduction Techniques	Mohamed I. Youssef, Ibrahim F. Tarrad, Mohamed Mounir	Egypt

CS: Control Systems (Hall I)

Wednesday December 21st, 2016

16:45 - 18:00

Panel:

68	On Design of M2M Smart Energy Control & Management Architecture	Khaled Y. Kamel, Amin S. Ibrahim, Abdelhalim Zekry, Mohamed Abouelatta	Egypt
11	Fuzzy Smith Predictor for Networked Control Systems	Ahmad Sakr, Ahmad M. El-Nagar, Mohammad El-Bardini, Mohammed Sharaf	Egypt
51	An Optimal PID Controller for A quadrotor System Based on DE Algorithm	Mohamed Reyad, M. Arafa, Elsayed A. Sallam	Egypt
112	MPPT Algorithms	Ahmed Saeed Ahmed, Bassem A. Abdullah, Wahied Gharieb Ali Abdelaal	Egypt

MS: Modelling and Simulation (Hall II)

Wednesday December 21st, 2016

16:45 - 18:00

Panel:

135	Modeling and Simulation of a Photovoltaic/Thermal Hybrid System Using Different Back-pipe Structures	A.Bayoumi, M. A. Nosier, O. E. Abdelatiff, N. A. Mahmoud	Egypt
62	Analysis of Different GNSS Array Processing Methods Utilizing New Experimental Approach Using a Spirent Simulator and Single Frontend Receiver	Aboelmagd Nouredin, Mohamed M.E. Moussa, Abdalla Osman, Mohamed Tamazin	Canada
6	Director Effect on Performance of Faulty Microstrip Rectangular Patch Array Antenna	Hassan M. El Kamchouchi, Samy H.Darwish, Yasser H. El Kamchouchi, M. E. Morsy	Egypt
124	A Real Time Dynamic Model for Optimizing Hydro carbons' Production Based on Deep Recurrent Network	A.S.Elons, M.Y.Elgendy, Dalia Ahmed Magdy	Egypt

2016 ICCES Venue

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