

Track I: Electrical and Computer Engineering (Information Engineering and Technology) Day 1: Saturday 19 th April	9.00 AM – 10.00 AM Registration and Morning Refreshments – C1.0		
	10.00 AM – 11.00 AM Opening Ceremony – C1.0		
	11.00 AM – 12.00 PM Invited Talk – C1.0		
	12.00 PM – 12.30 PM Coffee Break – C1.0		
	12.30 PM – 2.30 PM		
	Session 1: Digital Communication		Chair: Prof. Ahmed El-Mahdy Location: H9
	Paper ID	Title	Author(s)
	80	Performance Evaluation of Adaptive Modulation Decode-and-Forward Cooperative Wireless Communication System with Best-Relay Selection	Ahmed S. Mohamed, Mohammed Abd-Elnaby, and Sami A. El-dolil
	98	MMSE Based Beam forming for Chip Interleaved CDMA in Aeronautical Mobile Radio Channel	Sheirf k. Eldyasti, Essam A. A. Hagras, and Adel E. El-Hennawy
	177	A Hybrid Cooperative Spectrum Sensing Technique for Cognitive Radio Networks Using Linear Classifiers	Mohamed Gaafar, Yasmine Hassan, and Tallal Elshabrawy
	182	Performance Analysis of Single Code SCM-OFDM in Mobile Communication System	A. E. Zein Eldin, Esam A. A. Hagras, and Hala Mansour Abdel-Kader
	194	Blind Adaptive LMS Multiuser Detector with Variable Step Size	Khalifa Hunki , Ehab M. Shaheen, M. Soliman, and K. El Barbary
	197	Deterministic UWB Channel Modeling Using Ray Tracing Approach	A. Fathy, A. Yahya , and Hani Ragai
2.30 PM – 3.30 PM Lunch break – C1.0			
3.30 PM – 5.30 PM			
Session 2: Radio Frequency (RF) and Signal Processing and Coding		Chair: Dr. Hany Hammad Location: H9	
Paper ID	Title	Author(s)	
69	Using Adaptive Filters for GPS Receivers	Elton Mendes de Souza, and Humberto Abdalla Junior	
83	A Multiband Filter for Wireless and RFID Applications	Mahmoud. A. Abdalla, Aser M. Ahmed, and A. M. M. Allam	
101	Transient Magnetostatic Simulation and Experimental Verification of an Electromagnetic Coil Launcher	Hany M. Mohamed, Mahmoud A. Abdalla, Abdelazez A. Mitkees, and Wahed S. Sabery	
106	Dual-Band BPF Embedded in Multilayer Low Temperature Co-fired Ceramics (LTCC) for WiMAX Applications	A. M. Elelimy, and A. M El-Tager	
147	Differential Space-Time Coding for Partially-Coherent Decode and Forward Cooperative Communication	Ahmed El-Mahdy, and Ahmed Desouky	
184	Software Simulation Modeling Inductively Coupled Radio Frequency Identification Systems	Moatz M. Bahgat, Hania H. Farag, and El-Sayed A. Youssef	

Track I: Electrical and Computer Engineering (Information Engineering and Technology) Day 2 : Sunday 20 th April	8.30 AM – 9.00 AM Morning Refreshments – C1.0		
	9.00 AM – 10.30 AM Invited Talk – C1.0		
	10.30 AM – 12.00 PM [parallel sessions run in this slot]		
	Session 3A: Wireless sensors network and localization		Chair: Dr. Tallal El-Shabrawy Location: H9
	Paper ID	Title	Author(s)
	59	Multilevel Hierarchical Clustering protocol for wireless sensor networks	Abdelhamied A. Ateya, Mohammed S. Sayed, and Mahmoud I. Abdalla
	111	Smart Watering System for Gardens using Wireless Sensor Networks	Ahmed Hussein Abbas, Maya Medhat Mohammed, Gehad Mostafa Ahmed, Eman Adel Ahmed, and Rania Ahmed Abdel Azeem Abul Seoud
	134	Proposed Hierarchical Routing Protocol with Simple Nodes Locating Algorithm for Authenticated Nodes in Wireless Sensor Network	Amr M. Kishk, Abdelrahman A. Elkafsi, and Ahmed H. Madian, Nagy W. Messiha, and Nawal A. El-Fishawy
	193	Localization using DVB-T2 Signals	Tamer Yehya, Ashraf Mahran, and Yahya Mohasseb
	Session 3B: Circuit Design for Communication Systems		Chair: Dr. Amr Talaat Location: H10
Track I: Electrical and Computer Engineering (Information Engineering and Technology) Day 2 : Sunday 20 th April	Paper ID	Title	Author(s)
	96	Different Configurations for Dynamic Latched Comparators used in Ultra Low Power Analog to Digital Converters	Karim M. Abozeid, Mohamed M. Aboudina, and A. H. Khalil
	126	Modeling the Limitations Imposed by the Timing Jitter/Skew on the Time-Based ADC Performance	Hassan Mostafa, and Yehea I. Ismail
	190	A Novel Matching Network and Design Methodology for Inductively Degenerated LNAs at 60 GHz	Nehad Mansour, Mohamed El-Nozahi, Hassan El Ghitani, and Adel El Hennawy
	12:00 PM – 12:30 PM Coffee Break – C1.0		
	12.30 PM – 2.30 PM [parallel sessions run in this slot]		
	Session 4A: Applications and performance evaluation of telecommunications		Chair: Dr. Mohamed Ashour Location: H9
	Paper ID	Title	Author(s)
	19	Modeling and Simulation of Energy-Efficient Cloud Data Centers	Nada Moustafa , Maggie Mashaly, and Mohamed Ashour
	73	A Fast Level Set Method For Object Tracking	Nagi H. Alashwal, and Farhan M. A. Nashwan
Track I: Electrical and Computer Engineering (Information Engineering and Technology) Day 2 : Sunday 20 th April	86	Efficient Subcarrier-Power Allocation Scheme for Multiuser OFDM Systems	Germien G. Sedhom, Mohammed Abd-Elnaby, and Nagy W. Messiha
	92	Performance Evaluation of A Novel IMS-based Architecture for LTE-WIMAX-WLAN Interworking	Reem A. Hamada, Hanaa S. Ali, and M. I. Abdalla
	161	Power Tuning Based Load Balancing in LTE-A Relays Using Guided Local Search Heuristic	Reem Atteya, Mohamed Ashour, and Ramy Atawia
	179	Travel Speed Estimation from Cellular Networks Using Modified Data Swarm Clustering Algorithm	Yarah Ismail Ali Basyoni
	Session 4B: Renewable Energy and Power Applications		Chair: Prof. Dr. Tarek Saad Abd Elsalam Location: H10
	Paper ID	Title	Author(s)
	93	Developing of Energy Credits in an Egyptian Green Building Rating System	Essam M. Aboul-Zahab, Ahmed M. Ibrahim, Aboul-Fotouh, M. Abdel-Rehim, and Ahmed I. Omar
	94	Proposed for Achieving Mandatory Energy Credit 2: Minimum Energy Performance In an Egyptian Green Building Rating System	Essam M. Aboul-Zahab, Ahmed M. Ibrahim, Aboul-Fotouh M. Abdel-Rehim, and Ahmed I. Omar
	100	Experimental Characterization for a PV Module Using Low Cost Method	I.M. Mahmoud, and S.O. Abdellatif, T. S. Abdel-salam, A.Bayoumi, A. Sahbel, and O. E. Abdellatif
	102	A New Approach for Enhancing the Thermal Efficiency of a Hybrid PV/T System	A.Bayoumi, A. Sahbel, S. O. Abdellatif, and I. M. Mahmoud
	124	Optimal Strategy for Over Current Relay Coordination Using Genetic Algorithm	Rania A. Swief, Almoataz Y. Abdelaziz, and A. Nagy
	164	Storage Device Unit Modeling	Adel El Shahat
	175	Binary Cat Swarm Optimization versus Binary Particle Swarm Optimization for Transformer Health Index Determination	K. I. Mohamadeen, Rania M. Sharkawy, and M.M. Salama
	201	A Genetic Algorithm for Optimal Allocation of FACTS to enhance power system performance with wind penetration	A. Y. Abdelaziz, M. A. El-Sharkawy, M. A. Attia, and Y. G. Hegazy
2.30 PM – 3.30 PM Lunch Break – C1.0			
3.30 PM – 5.00 PM [parallel sessions run in this slot]			
Session 5A: Antennas		Chair: Prof. Abdelmegid Mahmoud Allam Location: H8	

	Paper ID	Title	Author(s)
	87	A Compact Planer UWB Antenna with Band-Notched Characteristics	Ahmed A. Ibrahim, Hesham F. A. Hamed, Mohammed Alla El-Din, Azhar Abdel-allaa, and Eman Yahia
	118	Design and Simulation of Microwave Diplexer Based on D-CRLH Metamaterials	Mohamed M. Mansour, Abdel-Aziz T. Shalaby , El-Sayed M. El-Rabaie, and Nagy W. Messiha
	139	A Novel Ku-Band Microstrip Antenna	Mohamed Ahmed Hassan Oweis, and Hussein Hamed Mahmoud Ghouz
	200	Implanted Antenna on Human Breast	M. A. Youssef, and A. M. M. A. Allam
	Session 5B: Integrated Circuit design and testing		Chair: Dr. Mohamed Abdel Ghany Location: H9
Paper ID	Title	Author(s)	
	107	Current Feedback Operational Amplifier(CFOA) Based Programmable Lossless Floating Inductor Realization	Lobna A. Said, Ahmed H. Madian, Mahmoud H. Ismail, and Ahmed M. Soliman
	128	New Non-Destructive Read /Write Circuit for Memristor-Based Memories	Mohamed Elshamy, Hassan Mostafa, and M. Sameh Said
	130	Design Considerations/Insights for Memristor-Based Memory Arrays	Mohamed Elshamy, Hassan Mostafa, and M. Sameh Said
	162	Dynamic Compaction using Multi-Valued Encoding in SAT-based ATPG	Kareem Habib, Mona Safar, Mohamed Dessouky, and Ashraf Salem
	185	Memristor-Based Redundant Binary Adder	A. A. El-Slehdar, A. H. Fouad, and A. G. Radwan
	5.00 PM – 5.30 PM Closing Ceremony – C1.0		

9.00 AM – 10.00 AM Registration and Morning Refreshments – C1.0 10.00 AM – 11.00 AM Opening Ceremony – C1.0 11.00 AM – 12.00 PM Invited Talk – C1.0 12.00 PM – 12.30 PM Coffee Break – C1.0 12.30 PM – 2.30 PM [parallel sessions run in this slot]		
Session I: Signal Processing for Computer Applications		Chair: Dr. Hisham Othman Location: H8
Paper ID	Title	Author(s)
84	Speech Encryption Applying a Modified Blowfish Algorithm	Amaal A. Abd El-Sadek, Talaat A. El-Garf, and Mohammed M. Fouad
150	Galaxies image classification using empirical mode decomposition and machine learning techniques	Mohamed AbdElfattah, Nashwa Elbendary, Hamdy K. Elminir, Mohamed A. Abu El-Soud, and Aboul Ella Hassani
154	Bell Pepper Ripeness Classification based on Support Vector Machine	Esraa Elhariri, Nashwa El-Bendary, Ahmed M. M. Hussein, Aboul Ella Hassani, and Amr Badr
172	Image Encryption Based on New One-Dimensional Chaotic Map	N. F. Elabady, H. M. Abdal-kader , M. I. Moussa, and S. F. Sabbeh
181	An Evaluation of Computer Based Color Vision Deficiency Test: Egypt as a study case	Noura A. Semary, and Hatem M. Marey
196	Effect of Varying Segment Size on DASH Streaming Quality for Mobile User	Yomna M. Hassan, Ahmed Helmy, and Mohamed M. Rehan
198	Technical Analysis on Future Challenges and Opportunities in Live P2P Streaming	Mohamed M. Rehan, Rana A. Morsi, and Ayman El Naggar
2.30 PM – 3.30 PM Lunch break – C1.0 3.30 PM – 5.30 PM [parallel sessions run in this slot]		
Session II: Information and Decision Support Systems		Chair: Dr. Wael Abousaadat Location: H8
Paper ID	Title	Author(s)
5	Decision Tree Approach for Plants Stoppage Decision Process due to Power Limitation. Case study: Steel Company	Mohamed Saied Essa Othman Hussien
21	Recursive Markovian Analysis for the Occupancy Distribution of M/G/1 Queuing Systems	Tallal El-Shabrawy
70	Comparative Study on Language Independent Forensic Writer Identification	Samar G. Aboul-Ela, Nagia M. Ghanem, and M. A. Ismail
138	An Investigation into the Use of the Education Management Information System (EMIS) in Iraq: Case Study	Rabea monam damin, Mona Ahmed Kadry, and Esam M. Hamed
141	Information Technology Governance in Egypt Research Institutions – A Case Study	Rasha M. El-Morshedy, Sherif A. Mazen, Ehab Hassanein, Aly A. Fahmy, and Mosaad K. Hassanein
153	Lexical similarity using fuzzy Euclidean distance	Heba Ayeldeen, Aboul Ella Hassani, and Aly A. Fahmy
156	Appearance-based Arabic Sign Language Recognition using Hidden Markov Models	A. Abdelbaky Ahmed, and Saleh Aly
187	Fuzzy cognitive map with linguistic values	Basem Mohamed Elomda, Hesham Ahmed Hefny, and Hesham Ahmed Hassan

Track 1: Electrical and Computer Engineering (Computer Science and Information Technology)
Day 2: Sunday 20th April

8.30 AM – 9.00 AM Morning Refreshments – C1.0 9.00 AM – 10.30 AM Invited Talk – C1.0 10.30 AM – 12.00 PM [parallel sessions run in this slot]		
Session III: Computer Science Applications	Chair: Dr. Yousra Al Kabani Location: H8	
Paper ID	Title	Author(s)
104	FPGA Implementation and Evaluation of a Simple Processor for Multi-scalar/Vector/Matrix Instructions	Mostafa I. Soliman, and Elsayed A. Elsayed
109	Exploiting ILP, DLP, TLP, and MPI to Accelerate Matrix Multiplication on Xeon Processors	Mostafa I. Soliman, and Fatma S. Ahmed
140	Drug Design: The Machine Learning Roles	Mohammed E. El-Telbany, Samah Rafat, and Engy Ebrahim Nasr
148	VRML to WebGL Web-based Converter Application	Fatma Ziwar, and Rimon Elias
178	Test Construction Tool based on Interoperability Standards	Muhammad H. Zedan, A. Omran, and Hesham A. Hassan
12.00 PM – 12.30 PM Coffee break – C1.0		
12.30 PM – 2.30 PM [parallel sessions run in this slot]		
Session IV: ICT for medical applications	Chair: Prof. Hazem Abbas Location: H8	
Paper ID	Title	Author(s)
79	Detection and Automatic Position Control for Head and Neck Tumors Resection based on Artificial Intelligent Technique	G. G. N. Gouid, A. A. A. Nasser, M. Z. Mostafa, and D. M. El-Hennawi
119	A Diabetes Diagnostic Domain Ontology for CBR System from the Conceptual Model of SNOMED CT	Shaker El-Sappagh, Samir El-Masri, Mohammed Elmogy, and Alaa M. Riad
121	Hybrid Rough Genetic algorithm Model for Making Treatment Decisions of Hepatitis C	M. M. Eissa, M. Elmogy, M. Hashem, and Farid A. Badria
131	Automatic Identification of Head and Neck Swellings in MRI Images Using Support Vector Machines Based On Cepstral Analysis	G. G. N. Gouid, A. A. A. Nasser, M. Z. Mostafa, and D. M. El-Hennawi
149	Chronic eye disease diagnosis using ensemble-based classifier	Hanaa Ismail Elshazly, Mohamed Waly, Abeer Mohamed Elkorany, and Aboul Ella Hassani
155	Automatic Liver CT Image Clustering based on Invasive Weed Optimization Algorithm	Walaa H. El-Masry, Eid Emary, and Aboul Ella Hassani
176	Liver Tumors Segmentation from Abdominal CT Images using Region Growing and Morphological Processing	O. Fekry Abd-Elaziz, M. Sharaf Sayed, M. Ibrahim Abdullah, Ola F. Abd-Elaziz, Mohammed S. Sayed, and Mahmoud I. Abdullah
2.30 PM – 3.30 PM Lunch break – C1.0		
5.00 PM – 5.30 PM Closing Ceremony – C1.0		

Track II: Mechanical Engineering and Material Science Day 1: Saturday 19th April	9.00 AM – 10.00 AM Registration and Morning Refreshments– C1.0	
	10.00 AM – 11.00 AM Opening Ceremony – C1.0	
	11.00 AM – 12.00 PM Invited Talk – C1.0	
	12.00 PM – 12.30 PM Coffee Break – C1.0	
	12.30 PM – 2.30 PM [parallel sessions run in this slot]	
	Session I: Autonomous mobile robots	
	Chair: Prof. Emam Morgan Location: C1.0	
	Paper ID	Title
	47	Decomposed Interval Type-2 Fuzzy Systems with Application to Inverted Pendulum
	56	Development and Evaluation of a Multi-Agent Autonomous Vehicles Intersection Control System
	58	A Hybrid Fuzzy-Genetic Controller for a Multi-Agent Intersection Control System
	115	First-Principles Simulation on Orientation Dependence of Piezoresistivity in Graphene Nanoribbon
	123	Proposed surface to air anti stealth technology for homeland security
	142	Fuzzy PDC Controller for a Class of T-S Fuzzy Bilinear System via Output Feedback
	2.30 PM – 3.30 PM Lunch break – C1.0	
	3.30 PM – 5.30 PM [parallel sessions run in this slot]	
	Session II: materials characterizations	
	Chair: Dr. Ahmed Abd-ElAziz Location: C1.0	
	Paper ID	Title
	24	An assessment of the residual stress state using hole-drilling method in aluminium alloys joined by a new frictionally induced welding process
	30	Experimental Analysis of Resistance Spot Welding of Aluminium to Steel Sheets using Heat Balance Correction Technique
	63	Mitigation of Crack and Bridging of Cu-Zn/Al lamellar Composite Structure
	158	Wear behavior of Magnesium Alloys AS41 and AZ31
	160	Optimization of layer composites with nontraditional interfaces for minimizing stresses

Track II: Mechanical Engineering and Material Science Day 2: Sunday 20th April	8.30 AM – 9.00 AM Morning Refreshments – C1.0		
	9.00 AM – 10.30 AM Invited Talk – C1.0		
	10.30 PM – 12.00 PM [parallel sessions run in this slot]		
	Session III: Dynamics and control		Chair: Prof. Ayman El Badawy Location: H11
	Paper ID	Title	Author(s)
	22	Anti-sway control of a tower crane using inverse dynamics	Ayman A. El-Badawy, and Mina Maged George Shehata
	23	Anti-sway control of marine cranes under the disturbance of a parallel manipulator	Ayman A. El-Badawy, and Mina Maged George Shehata
	38	Modeling and Simulation of Four-Wheel Steering Unmanned Ground Vehicles using A PID controller	A. Haytham, A. Wassal, Y. Z. Elhalwagy, and N. M. Darwish
	51	Enhancement of the Performance of a Micropositioning Piezoelectric Actuator using Hybrid Fuzzy Robust Control	Mostafa Abdelaziz, Magdy M. Abdelhameed, and Farid A. Tolbah
	95	Manipulator Trajectory Planning using Artificial Potential Field	Ahmed Badawy
12.00 PM – 12.30 PM Coffee Break – C1.0			
2.30 PM – 3.30 PM Lunch break – C1.0			
5.00 PM – 5.30 PM Closing Ceremony – C1.0			