



# ITCE'2019 TECHNICAL PROGRAM



## Saturday, 2<sup>nd</sup> Feb. 2019

8:00 – 9:00	<b>Registration</b>				
9:00 -10:30	<b>Opening Ceremony</b>				
10:30 – 11:15	Invited Talk:” Connected and Autonomous Electric Vehicles in Smart Cities” <b>Prof. Hussien Mouftah</b>				
11:15– 11:45	Break				
11:45 – 12:30	Invited Talk:” Collaborative Caching in Next Generation Wireless Networks” <b>Prof. Hossam S.Hassanein</b>				
12:30 – 13:15	Invited Talk: “Motivations, Challenges& Research Opportunities in Antennas for Wireless Communications and Future Networks” <b>Dr. Yahia M.M. Antar</b>				
13:15 – 14:15	Lunch				
14:15 – 15:30	Industrial Sessions [NTRA, UMR, NTA, FEC, Mentor Graphics]				
15:30 – 17:10	[Main Room] CIT1	[Room 1] CV1	[Room 2] PS1	[Room 3] CE1	[Room 4] NS1
17:10 – 17:20	Break				
17:20 – 19:00		PS3	PS2	CE2	CR1

Track name	Sessions
<b>Advanced Control, Automation and Robotics</b>	CR1
<b>Communications &amp; Electronics</b>	CE1, CE2
<b>Computational Methods in Power Systems</b>	PS1, PS2, PS3
<b>Computer Networks and Security</b>	NS1
<b>Computing and Information Technologies</b>	CIT1
<b>Image Processing and Computer Vision</b>	CV1

## Sunday, 3<sup>rd</sup> February 2019

8:00 – 9:00	<b>Registration</b>				
9:00 – 10:00	[Main Room] Invited Talk “Rending Innovations of Data Science and Big Data Analytics in Inter-Disciplinary Domains” <b>Eng. Hisham A. Shehata</b>	[Room 1]  Plenary Discussion <b>Dr. Fadel Daighm NTRA</b>	[Room 2] Invited Talk  <b>Prof. Mohamed Thrwat Prof. Mazen Abdel-Salam</b>		
10:00- 10:20	Break				
10:20 – 12:20	[Main Room] CIT2	[Room 1] CV2	[Room 2] PS4	[Room 3] CE3	[Room 4] CR2
12:20 – 12:30	Break				
12:30 - 14:30	CIT3	CV3	PS5	CE4	NS2
14:00 – 15:00	Lunch				
15:00 – 16:00	Invited Talk: “The Unified Communications (UC) Applied to Telephony” <b>Prof. Mohamed Samy El-Hennawy</b>				
16:00 – 17:00	<b>Poster Session</b>				
17:00 - 18:00	Closing Ceremony				

Track name	Sessions
<b>Advanced Control, Automation and Robotics</b>	<b>CR2</b>
<b>Communications &amp; Electronics</b>	<b>CE3, CE4</b>
<b>Computational Methods in Power Systems</b>	<b>PS4, PS5</b>
<b>Computer Networks and Security</b>	<b>NS2</b>
<b>Computing and Information Technologies</b>	<b>CIT2, CIT3</b>
<b>Image Processing and Computer Vision</b>	<b>CV2,CV3</b>

**Saturday, 2<sup>nd</sup> February 2019**

## **Invited Talk**

### **Connected and Autonomous Electric Vehicles in Smart Cities**

[Main Room]

Prof. Hussien Mouftah  
Canada Research Chair in Wireless Sensor Networks  
Distinguished University Professor, University of Ottawa

The transformation of our current cities into smarter cities will bring challenges in diverse areas such as the transportation system, the electricity system, and wearable systems, just to name a few. In smart cities, Information and Communication Technologies (ICT) will play a vital role for providing services in the urban environment. These services include real time monitoring and reaction in time through wireless sensor and actuator networks. Smart Grids (SGs), Intelligent Transportation Systems (ITS), Internet of Things (IoT), Electric Vehicles (EVs), and Wireless Sensor Networks (WSNs) will be the building blocks of futuristic smart cities. Smart grid refers to the modernization of traditional power grid by incorporating two-way digital communication support at generation, transmission, and distribution level. Intelligent transportation system refers to making the vehicular traffic smarter by reducing congestion, optimized fuel consumption, shorter routes, and better safety, self-driving cars by using communication and sensing technologies. Internet of things refer to a world-wide network of interconnected objects uniquely addressable, employing M2M communications, based on standard communication protocols and allows people and things to be connected Anytime, Anyplace, with Anything and Anyone, ideally using Any path/network and Any service. IoT can be very useful for resource management in the context of smart cities. Wireless sensor networks are composed of sensor nodes capable of performing sensing and implementing the M2M communications. All these technologies will help to build a smart city. In this presentation we will address technology trends with a focus on connected and autonomous electric vehicles in smart cities.

**Saturday, 2<sup>nd</sup> February 2019**

## **Invited Talk**

### **Collaborative Caching in Next Generation Wireless Networks**

[Main Room]

Prof. Hossam S.Hassanein  
Telecommunications Research Lab  
School of Computing & Department of Electrical and Computer Engineering  
Queen's University

User generated content, especially video is the predominant source of Internet traffic. Such traffic will be primarily facilitated by mobile devices in 5G wireless networks. To alleviate the high cellular costs and excessive delays, the use of content caching (in-network and/or at the edge) is widely accepted. This talk sheds light on how to utilize in-network and edge caching for supporting multimedia applications over 5G wireless networks. Since content producers and consumers can be mobile, we discuss predictive mobility management schemes for caching that are resilient to uncertainties. We show how proactive solutions, which exploit location and data traffic prediction, can deliver the content of mobile users (both consumers and producers) under application delay constraints. Particularly, the network can detect roaming users and caches their prospective content ahead of handover events while considering the maximum tolerable delay and network overheads. Caching nodes could be part of the infrastructure or in user devices/vehicles. We investigate methods of getting the data closer to the requester using cooperative content discovery and placement at vehicles. We exploit the static and mobile nature of parked and moving vehicles, respectively, to dynamically populate valuable road segments with diverse cached data. We discuss methods of diffusing cached content information and tracking caching nodes, hence providing an implicit form of off-path caching by assessing the trajectory of moving vehicles encountered along the data delivery path.

Finally, and realizing that cache performance diminishes as video consumers dynamically select content encoded at different bitrates, we introduce methods to dissect the cache capacity of routers along a forwarding path according to dedicated bitrates. To facilitate this partitioning, we propose a guiding principle which stabilizes bandwidth fluctuation while achieving high cache utilization by safeguarding high-bitrate content on the edge and pushing low-bitrate content into the network core.

**Saturday, 2<sup>nd</sup> February 2019**

**Invited Talk**

**Motivations, Challenges, and Research Opportunities in  
Antennas for Wireless Communications and Future Networks.**

[Main Room]

Dr. Yahia M.M. Antar  
Professor and Canada Research Chair in Electromagnetic Engineering  
Dept. of Electrical and Computer Engineering,  
Royal Military College of Canada & Queen's University

Many aspects of our lives and economies are becoming fundamentally dependent on wireless technology in a manner that they were not before. This trend is exemplified by the current massive investment in future endeavours, such as 5G technology. Many in IEEE believe 5G will become the cornerstone of future wireless networks, enabling fundamentally new applications such as the internet of things (IOT), with its anticipated billions of devices laden with embedded sensors. A common denominator in many of these new wireless applications is the antenna systems, which form the “eyes and ears” of many sensors. New developments for advancing the state of the art in antenna technology and Electromagnetic waves propagation at microwave and millimeter wave bands to meet future challenges will be needed.

This talk will address some current and new emerging directions of research in antenna systems and other related aspects in Electromagnetic Engineering that are essential for future developments. This includes new system approaches and methodologies for antenna analysis and design, considerations for anticipated massive MIMO systems, Electromagnetic Machine Learning and application to analyse the near fields' spatial structures and the electromagnetic environment around communication systems and sensors. Anticipated implications on future educational activities, as predicted by IEEE, will be discussed.

## Saturday, 2<sup>nd</sup> February 2019

### **CIT1: Computing and Information Technologies I [Main Room ]**

15:30 – 15:50	MQL: Mixed Query Language for Querying MySQL and HBase Databases	Khaleel Mershad
15:50 – 16:10	Is GPU Ready to Boost Genomic Alignment Computation	Fuhank Buntara; Rikky Wenang Purbojati; Bu Sung Lee; Xian Zhou Chan
16:10 – 16:30	Grammatical Facial Expression Recognition Basing on a Hybrid of Fuzzy Rough Ant Colony Optimization and Nearest Neighbor Classifier	Mona Gafar
16:30 – 16:50	Genetic Algorithms for Discovering Community Cores Hidden Within Multidimensional Social Networks	Yaser Maher Wazery, YM; Mostafa Elkharte

### **CV1: Image Processing and Computer Vision I [Room 1 ]**

15:30 – 15:50	Accurate Vehicle Counting Approach Based on Deep Neural Networks	Mohamed Ahmed Abdelwahab
15:50 – 16:10	Application of Fuzzy Logic on Astronomical Images Focus Measure	Alaa Hamdy; Farag Elnagahy; Islam Helmy
16:10 – 16:30	Breast Cancer Detection Using Polynomial Fitting Applied on Contrast Enhanced Spectral Mammography	Shaimaa Mostafa; Mohamed El-Adawy; Roaa Mubarak; Amr Moustafa; Mohamed Gomaa; Rasha Kamal
16:30 – 16:50	NumPyCNNAndroid: A Library for Straightforward Implementation of Convolutional Neural Networks for Android Devices	Ahmed Gad
16:50 – 17:10	Single Image Super Resolution Based on Learning Features to Constrain Back Projection	Yasser Badran; Gouda I. Salama; Tarek Mahmoud; Aiman Mousa; Adel Elsayed Moussa

### **PS1: Computational Methods in Power Systems I [Room 2 ]**

15:30 – 15:50	Application of Multi-Verse Optimizer for Transmission Network Expansion Planning in Power Systems	Ragab A. El-Sehiemy; Abdullah Shaheen
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15:50 – 16:10	Optimal Allocation of Distributed Generations and Capacitor Using Multi-Objective Different Optimization Techniques	Ayat Ali; Al-Attar Ali Mohamed; Ashraf Hemeida
16:10 – 16:30	Mitigation of Electric Vehicles Charging Impacts on Distribution Network with Photovoltaic Generation	Morsy Nour; Abdelfatah Ali; Csaba Farkas
16:30 – 16:50	Optimal Placement of Distributed Energy Resources Including Different Load Models Using Different Optimization Techniques	Shimaa Mahmoud; Al-Attar Ali Mohamed; Ashraf Hemeida; Abdalla Ahmed Ibrahim
16:50 – 17:10	Modified Maximum Power Point Tracking Technique Based on One Cycle Control for PV Applications	Khaled Awad; Nehmedo ElAmir; Omar Abdel-Rahim; Mohamed Orabi
<b>CE1: Communications &amp; Electronics I</b>		<b>[Room 3 ]</b>
15:30 – 15:50	Compact Planer UWB Antenna for High Speed Communications	Ahmed A Ibrahim
15:50 – 16:10	WiFi Antenna Design and Modeling Using Artificial Neural Networks	Passant Abbassi; Abdelmegid Allam; Niveen Badra; Ahmed El-Rafei
16:10 – 16:30	Tri-band Pass Filter Using Optimized Psi-shaped Resonators	Shahenda Eid; Roaa Mubarak; Hesham Abdel Hady; Korany R Mahmoud
16:30 – 16:50	A QoS-based Power Optimization for D2D Underlying Macro-Small Cellular Networks with Imperfect Channel Estimation	Ahmed E. El-Mahdy; Engy Aly Maher
<b>NS1: Computer Networks and Security I</b>		<b>[Room 4 ]</b>
15:30 – 15:50	Speedup for Cryptography on CUDA Heterogeneous Architecture	Hassan Youness
15:50 – 16:10	Performance Evaluation of Medium Access Control Protocols for Cognitive Radio Ad Hoc Networks	Shimaa Abdzaher; Ahmed Alshammi; Imane A. Saroit
16:10 – 16:30	On Network Systems Design: Pushing the Performance Envelope via FPGA Prototyping	Ahmed M. Abdelmoniem; Yomna M. Abdelmoniem; Brahim Bensaou
16:30 – 16:50	An AES Double-Layer Based Message Security Scheme	Wassim Alexan; Ahmed Hamza; Hana Medhat
<b>PS2: Computational Methods in Power Systems II</b>		<b>[Room 2 ]</b>

17:20 – 17:40	Impact of Optimum Allocation of Distributed Generations on Distribution Networks Based on Multi-Objective Different Optimization Techniques	Ayat Ali; Al-Attar Ali Mohamed; Ashraf Hemeida
17:40 – 18:00	Modeling and Control of a Charge/Discharge Unit of Electric Power System for Low Earth Orbit Satellites	Ahmed Adam; Usama AbuZayed; Sherif Helmy; Ramadan Moustafa
18:00 – 18:20	Voltage/Frequency Control of Isolated Unbalanced Radial Distribution System Fed from Intermittent Wind/PV Power Using Fuzzy Logic Controlled-SMES	Mohamed M. Aly; Hossam S. Salama; Istvan Vokony
18:20 – 18:40	Recloser-fuse Coordination of Radial Distribution Systems with Different Technologies of Distributed Generation	Mohamed M. Aly; Hammad Mahrous; Mahmoud Mahmoud
18:40 – 19:00	Performance Assessment of a Realistic Egyptian Distribution Network Including PV Penetration with DSTATCOM	Salah Kamel; Ashraf Ramadan; Mohamed Ebeed
<b>PS3: Computational Methods in Power Systems III [Room 1]</b>		
17:20 – 17:40	Smart Charging of Electric Vehicles According to Electricity Price	Morsy Nour; Sayed M. Said; Abdelfatah Ali; Csaba Farkas
17:40 – 18:00	The Whale Optimization Algorithm Based Controller for PMSG Wind Energy Generation System	Al-Attar Ali Mohamed; Ahmed Lotfy; Ashraf Hemeida
18:00 – 18:20	Submerged Solar Energy Harvesters Performance for Underwater Applications	Sameh Osama; Ghazal Alsaayyad; Rana Abdelmoteleb; Mohammad M Abdellatif; Salsabeel Kamal
18:20 – 18:40	Distribution Network Reconfiguration Using Augmented Grey Wolf Optimization Algorithm for Power Loss Minimization	Salah Kamel; Hanan Hamour; Loai S. Nasrat; Juan Yu
18:40 – 19:00	Simulating the Thermoelectric Behavior of CNT Based Harvester	Sameh Osama; Hani A. Ghali; Mohamed Sanad; Ahmed Shaker
<b>CE2: Communications &amp; Electronics II [Room 3]</b>		
17:20 – 17:40	Compact Broadband Rectenna for Harvesting RF Energy in WLAN and WiMAX Applications	Osama Dardeer; Hala Elsadek; Esmat Abdallah

17:40 – 18:00	The Effect of Different Surface Grating Shapes on Thin Film Solar Cell Efficiency	Khalil ElKhamisy; El-Sayed M. El-Rabaie; Salah Elagooz; Hamdy Abd elhamid
18:00 – 18:20	Compact Bandpass Filter Based on Split Ring Resonators	Sameh Osama; Mohamed Hisham
18:20 – 18:40	RF Energy Harvesting Using Transparent Antenna for IoT Application	Nermeen Eltresy; Dalia Elsheakh, I; Esmat Abdallah; Hadya El-Hennawy
18:40 – 19:00	Cross-tier Interference Reduction in MIMO Heterogeneous Network with Imperfect CSI	Engy Aly Maher; Ahmed E. El-Mahdy
<b>CR1: Advanced Control, Automation and Robotics I [Room 4]</b>		
17:20 – 17:40	LabVIEW-Based Interactive Remote Experimentation Implementation Using NI myRIO	Mohanad Odema; Ihab Adly; Hani A. Ghali
17:40 – 18:00	Comparative Evaluation of PWM Techniques Used at Mega 328 with PI Control for Inverter-Fed Induction Motor	Mohmed A. Mosbah; Emad El-Zohri
18:00 – 18:20	High Performance Control of PMSM Drive System Implementation Based on DSP Real-Time Controller	Yasser Mahmoud Alsayed Hassan; Abdelhamed Maamoun; Adel Shaltout
18:20 – 18:40	Metrological Characterization of a Textile Temperature Sensor	Andrea Zanobini
18:40 – 19:00	Comparative Analysis of Using Single / Three- Phase Voltage-Source for SVPWM Three-Phase Inverter Feeding a PM Servo Motor	Yasser Mahmoud Alsayed Hassan; Abdelhamed Maamoun; Adel Shaltout

**Sunday, 3<sup>rd</sup> February 2019**

**Invited Talk**

**Rending Innovations of Data Science and Big Data Analytics  
in Inter-Disciplinary Domains**

[Main Room]

**Eng. Hisham Arafat Shehata**

Data Science and Big Data Analytics - as an emerging domain of the Digital Transformation - has passed the hype into solid applications in different areas. Historically, the associated platforms, methods and techniques emerged as horizontal ones focus more on the underlying technology rather than specific targeted vertical disciplines like for example material science, environment models, Bioengineering, life sciences, engineering...etc.

In this session, several trending applications and technologies of Big Data Analytics are presented in the context of multi disciplinary R&D areas including examples in engineering, physics, environment, biology, healthcare where most recent innovative technologies, methods and patterns are explored in a context. Advanced patterns including reel-time event-driven models, distributed analytics and edge analytics are presented. The main outcome is to experience the significant benefits of applying those new innovative approaches and highlight the key design decisions reflected on engineered solutions blueprints widely adapted by the industry and global market.

**Sunday, 3<sup>rd</sup> February 2019**

**Invited Talk**

**The Unified Communications (UC) Applied to Telephony**

[Main Room]

**Prof. Mohamed Samy El-Hennaway**

October University for Modern Sciences & Arts, Egypt.

The idea of the Unified Communications (UC) was first introduced by Enterprises in the early 1990s. UC offers great advantages augmenting all types of communication applications in one network utilizing different protocols. With the massive spread of Internet, the Internet Protocol (IP) has attracted the attention for the UC. Not only Enterprises now use the IP for the UC, Carrier (landline and mobile) providers have also started to combine their various applications in UC. One of the first set of applications to be augmented in the UC is "Internet Telephony" and the term "Voice over the Internet Protocol" or VoIP has been adopted. As it is well known, the IP was originally designed for data transmission rather than for real-time multimedia communication. This was the first challenges facing VoIP equipment manufacturers as well as service providers. During the past two decades, great effort has been spent to mitigate these challenges. Most of such challenges were based on voice quality, not only to achieve similar quality level as that of the traditional telephone network, but also to provide better services in different aspects. The traditional telephone network is called "Public-Switched Telephone Network" – PSTN, and is alternatively called "General-Switched Telephone Network" – GSTN. As well, and since it is traditional, it also got the term "Plain Old Telephone System" – POTS. While giving a broad picture about VoIP, this talk will concentrate on "Voice Quality". For instance, the Internet performance depends on the delay or throughput associated with any of its link. Such delay obviously will affect the interactive communication. Not only this subjectively annoys the talkers, but it seriously affects the echo and echo cancellation procedures. As such the Real-Time Protocol" – RTP has been introduced. For economical reasons, it is highly desirable to include as many traffic calls in one link. Hence, speech compression has been introduced with many compression techniques. Moreover, silence suppression was utilized. In RTP protocol, packet loss is possible and certainly affecting quality. Those factors and others will reduce voice quality. For reliable VoIP transmission, "Voice Quality" – VQ needs to be estimated. Not only is this needed to be calculated during the network design and configuration phase, but it is also required for the mitigation of the particular cause of the issue. This process is called "Self-Healing Networking". This talk will give highlight to such self-healing procedure.s

## Sunday, 3<sup>rd</sup> February 2019

### **CIT2: Computing and Information Technologies II [Main Room]**

10:20-10:40	A Fog-based IoT Platform for Smart Buildings	Ghada Alsuhli; Ahmed Khattab
10:40-11:00	Recommender Systems Challenges and Solutions Survey	Marwa Hussien Mohamed; Mohamed Helmy Khafagy; Mohamed Hasan Ibrahim
11:00-11:20	Automated Negotiation Framework Based on Intelligent Agents for Cloud Computing	Doaa Elmatary; Noha ElAttar, El-Attar; Wael Awad; Ibrahim Hanafy
11:20-11:40	A Cloud-based Model for Medical Diagnosis Using Fuzzy Logic Concepts	Hosam El-Sofany, Islam A.T.F. Taj-Eddin
11:40-12:00	H-Ahead Multivariate Microclimate Forecasting System Based on Deep Learning	Shereen Taie; Esraa Elhariri

### **CV2: Image Processing and Computer Vision II [Room 1]**

10:20-10:40	Characterization of the Sources of Degradation in Remote Sensing Satellite Images	Mohammed Hussein; Mohamed Hanafy; Tarek Mahmoud
10:40-11:00	Investigating Relationship Between Lateral Time-To-Peak (TTP) Displacement Curves and Stiffness of Viscoelastic Agar-Gelatin Phantoms	Hassan Mostafa Fahmy Gbr; Nancy Salem; Ahmed Farag Seddik; Mohamed El-Adawy
11:00-11:20	Effect of Different Spatial Resolutions of Multi-Temporal Satellite Images Change Detection Application	Abdelrahman Yehia; Hassan Elhifnawy; Mohammed Safy
11:20-11:40	Enhancement of Ultrasound Images Quality Using a New Matching Material	Asmaa Hassan; Ahmed Sayed; Mohamed El-Adawy; Ashraf Ali Wahba; Marwa Anas Ali. Haggag

### **PS4: Computational Methods in Power Systems IV [Room 2]**

10:20-10:40	Impact of Optimal Allocation of Renewable Distributed Generation in Radial Distribution Systems Based on Different Optimization Algorithms	Shimaa Mahmoud; Al-Attar Ali Mohamed; Ashraf Hemeida
10:40-11:00	An Enhanced Jaya Optimization Algorithm (EJOA) for Solving Multi-Objective ORPD Problem	Asmaa Barakat; Ragab A. El-Sehiemy; Mohamed Elsayd; Elsaid Osman

11:00-11:20	Design of Microgrid with Flywheel Energy Storage System Using HOMER Software for Case Study	Abdelmaged Ali; Ahmed Kassem; Khairy Sayed; Ismail Aboelhassan
11:20-11:40	Developing Phase-Shift PWM-Based Distributed MPPT Technique for Photovoltaic Systems	Mokhtar Aly; Ahmed Elmelegi; Emad Ahmed
11:40-12:00	Multi-Objective Whale Optimization Algorithm for Optimal Allocation of Distributed Generation and Capacitor Bank	Ayat Ali; Al-Attar Ali Mohamed; Ashraf Hemeida; Abdalla Ahmed Ibrahim
12:00-12:20	Most Valuable Player Algorithm for Solving Direction Overcurrent Relays Coordination Problem	Salah Kamel; Ahmed Korashy; Abdel-Raheem Youssef; Francisco Jurado
<b>CE3: Communications &amp; Electronics III</b>		<b>[Room 3]</b>
10:20-10:40	Clustering of Remote Radio Heads in C-RAN to Minimize the Number of Base-Band Units	Hadil Eissawy; Mohamed Ashour
10:40-11:00	Remaining Energy Aware ML-CSMA/TDMA Hybrid MAC Protocol for LTE-M2M Wireless Network	Ahmed Naguib; Waleed Saad; Mona Shokair
11:00-11:20	Design of Area Efficient and Low Power 4-Bit Multiplier Based on Full-Swing GDI Technique	Omnia Albadry; Mohsen A. Mohamed El-Bendary; Fathy Z. Amer; Said Mohamed Singy
11:20-11:40	Performance of RF Underwater Communications Operating at 433 MHz and 2.4 GHz	Mohammad M Abdellatif; Sameh Osama; Haitham Hassan Mahmoud; Salma M Maher; Ziad M. Ali
11:40-12:00	A Comparative Study of Relaying Networks: An Outage Probability Approach	Wassim Alexan; Saleh Megahed; Rowan Zaki
<b>CR2: Advanced Control, Automation and Robotics II</b>		<b>[Room 4]</b>
10:20-10:40	System Design and Implementation of Wall Climbing Robot for Wind Turbine Blade Inspection	Anwar Sahbel; Ayman Abbas; Tariq Sattar
10:40-11:00	Improving Efficiency and Saving Energy in Electro-Pneumatic System Using VFD	Esraa Mohamed Ahmed; Hamdy Ashour; Mohamed Mostafa; Ragi Hamdy
11:00-11:20	Automatic Traffic Violation Recording and Reporting System to Limit Traffic Accidents	Samir A ElSagheer
11:20-	Crowd Modeling Based Auto	Samir A ElSagheer;

11:40	Activated Barriers for Management of Pilgrims in Mataf	Mohammad Tanvir Parvez
<b>CIT3: Computing and Information Technologies III [Main Room]</b>		
12:30-12:50	A Novel Algorithm for Course Learning Object Recommendation Based on Student Learning Styles	Shaimaa Nafea
12:50-13:10	The Study of Perpendicular Distance Approach Based on RSSI for Indoor Localization	Ahmed Abdelraouf; Mohamed Ashour; Hany F Hammad; Tallal Elshabrawy
13:10-13:30	Matching Tumour Candidate Points in Multiple Mammographic Views for Breast Cancer Detection	Mohamed Abdelnasser; Antonio Moreno Ribas; Mohamed Ahmed Abdelwahab; Adel Saleh; Saddam Abdulwahab; Vivek Kumar Singh; Domenec Puig
13:30-13:50	Evaluation for Scheduling Techniques in Cloud Data Centers: Simulation and Experimentation	Maggie Mashaly; Paul J. Kühn
13:50-14:10	Context-Aware Recommender System Frameworks, Techniques, and Applications: A Survey	Hamdy Fadl Abdulkarem; Ghada Abozaid; Mostafa I. Soliman
<b>CV3: Image Processing and Computer Vision III [Room 1]</b>		
12:30-12:50	An Effective Human Action Recognition System Based on Zernike Moment Features	Saleh ALy; Asmaa Sayed
12:50-13:10	Ensemble of Multiple Classifiers for Automatic Multimodal Brain Tumor Segmentation	Moumen El-Melegy; Khaled M. Abo El-Magd; Samia Ali; Khaled Hussain; Yousef Mahdy
13:10-13:30	Efficient Preprocessing Algorithm for Online Handwritten Arabic Strokes	Mohamed AbdElNafea; Samia Heshmat
13:30-13:50	Refining ROI Selection for Real-Time Remote Photoplethysmography Using Adaptive Skin Detection	Ramy Mohamed; Osama A. Omer; Abdul-Magid Ali; Moustafa Hussein Aly
<b>PS5: Computational Methods in Power Systems V [Room 2]</b>		
12:30-12:50	A Pareto Strategy Based on Multi-Objective for Optimal Placement of Distributed Generation Considering Voltage Stability	Shimaa Mahmoud; Al-Attar Ali Mohamed; Ashraf Hemeida
12:50-13:10	Impact of Distributed Generation on	Mohamed M. Aly; Aliaa



	Recloser-Fuse Coordination of Radial Distribution Networks	Ahmed; Salah Kamel
13:10-13:30	Optimal Reactive Power Dispatch Using Modified Sine Cosine Algorithm	Salah Kamel; Mohamed Ebeed
13:30-13:50	Analysis and Design of Multi-Phase Buck DC-DC Converters for Li-Fi Atto-cell Drivers	Mokhtar Aly; Anwaar Damerdash; Emad Ahmed
13:50-14:10	Techno-economic Feasibility of Photovoltaic System for an Educational Building in Egypt	Sameh Osama; Peter Makeen; Ibrahim Mahmoud; Tarek Abdel-Salam
14:10-14:30	Machine Topology for Integral Starter-Generator in More-Electric Aircraft	Ahmed Hafez; Ali Yousef
<b>CE4: Communications &amp; Electronics IV</b>		<b>[Room 3]</b>
12:30-12:50	Optimizing Gate-on-Source Overlapped TFET Device Parameters by Changing Gate Differential Work Function and Overlap Dielectric	Muhammad A. Elgamal; Mostafa Fedawy
12:50-13:10	Improvement of All Digital Interferometer Fiber Optic Gyroscope (IFOG) Accuracy Using True-Log Amplifier	Mostafa Fedawy; A. El Gharabwy
13:10-13:30	Loose Animal-Vehicle Accidents Mitigation: Vision and Challenges	Waleed Saad; Abdulaziz S. Alsayyari
13:30-13:50	Design of 6 GHz High Efficiency Long Range Wireless Power Transfer System Using Offset Reflectors Fed by Conical Horns	Mahmoud AbdelHafeez; Khalil Yousef; Mohamed Abdelraheem; Elsayed Esam M. Khaled
13:50-14:10	Investigating Antenna Positioning, Beam Width and Direction in Indoor DAS Systems to Meet Coverage	Hadil Eissawy; Mohamed Ashour
<b>NS2: Computer Networks and Security II</b>		<b>[Room 4]</b>
12:30-12:50	Improving the Performance of the Snort Intrusion Detection Using Clonal Selection	Hussein Elshafie; Tarek M Mahmoud; Abdelmgeid Ali
12:50-13:10	Effect of Application Types on the Performance of WiFi Networks	Adel Agamy; Ahmed Mohamed
13:10-13:30	Secure Message Embedding in 3D Images	Salma El Sherif; Ghadir Mostafa; Sara Farrag; Wassim Alexan
13:30-13:50	Performance Evaluation of Backhaul Network in Cloud Radio Access Networks	Younna Atef; Nada Ehab; Maggie Mashaly

## Poster Session

Delay Optimization of 4-Bit ALU Designed in FS-GDI Technique	Mahmoud Aymen Ahmed; Mohsen A. Mohamed El-Bendary; Fathy Z. Amer; Said Mohamed Singy
Secure Transmission of Space Images Using Joint Encryption Compression	Amr Abdelaziz; Essam Abdelwaness; Ashraf Elbayoumy
Cellular Network Power Control Optimization Using Unsupervised Machine Learnings	Ayman Gaber; Mohamed Mahmoud Zaki; Ahmed Maher Mohamed; Mohamed Abdellatif Beshara
Data Security in Cloud Computing Using Steganography: A Review	<u>Aya Yakout Alkhamese</u> ; Wafaa Shabana; Ibrahim Hanafy
Practical Performance Analysis and Device Selection for Photovoltaic Multilevel Inverters Installations	Mokhtar Aly; <u>Doaa Ramadan</u> ; Emad Ahmed
Photovoltaic Applications for Lighting Load Energy Saving: Case Studies, Educational Building	Sameh Osama; Nancy Abdelgaead; Tarek Abdel-Salam
Modeling the Automatic Voltage Regulator (AVR) Using Artificial Neural Network	Salem Alkhalaf
Comparative Study to Investigate the Effect of Five VS Seven Segment Modulation Sequence on the Waveform Distortion Resulted by the Overlap Time in Current Source Inverter	Omar Abdel-Rahim; Mahmoud Gaber; Mohamed Orabi
Single-Phase Isolated Bidirectional AC-DC Battery Charger for Electric Vehicle – Review	<u>Mahmoud Nassary</u> ; Mohamed Orabi; Maged Ghoneima; Mohamed K. El-Nemr
Performance Analysis for Single-Stage Buck-Boost Inverter	Eltaib Abdeen; Mohamed Orabi; <u>Mahmoud Gaafar</u>



**Monday, 4<sup>th</sup> February 2019**

**ITCE 2019 Trip to Luxor  
6 AM – 6 PM**



