

# CALL FOR PAPERS

2019 INTERNATIONAL CONFERENCE ON  
INNOVATIVE TRENDS IN COMPUTER  
ENGINEERING (ITCE'2019)

SPECIAL TRACKS ON  
COMMUNICATIONS AND ELECTRONICS  
COMPUTATIONAL METHODS IN POWER SYSTEMS

2 - 4 February, 2019  
Aswan, Egypt

<http://www.itce-conference.org>



FERIT  
FACULTY OF ELECTRICAL ENGINEERING,  
COMPUTER SCIENCE AND INFORMATION  
TECHNOLOGY 05120K

Under Patronage of

**Prof. Ahmed Ghallab**

President of Aswan University

**Prof. Ayman Othman**

Vice President for Graduate Studies and Research Aswan University

**Prof. Loai S. Nasrat**

Dean of Faculty of Engineering, Aswan University

Conference Chair

**Prof. Mostafa I. Soliman**

Professor of Computer Engineering, Aswan University

Technical Program Co-Chairs

<b>Prof. Samir Shaheen</b>	Cairo University, Egypt.
<b>Prof. Nevin Darwish</b>	Cairo University, Egypt.
<b>Prof. Ayman Wahba</b>	Ain Shams University, Egypt.
<b>Prof. Mohamed Tharwat</b>	Assiut University, Egypt.
<b>Prof. Mazen Abdel-Salam</b>	Assiut University, Egypt.
<b>Prof. Hadia El-Hennawy</b>	Ain Shams University, Egypt.
<b>Prof. Samy El-Hennawy</b>	MSA University, Egypt.

Conference Organization Co-Chairs

<b>Dr. Samir A. Elzagheer</b>	Qassim University	IT
<b>Dr. Ghada Y. Abozaid</b>	Aswan University	Publication
<b>Dr. Ahmed M. Mohamed</b>	Aswan University	Financial
<b>Dr. Tarek Hagras</b>	Aswan University	Publicity
<b>Dr. Mahmoud A. Housen</b>	Ministry of Environment	Industrial
<b>Dr. Omar M. Abdelrahim</b>	Aswan University	Forum
<b>Dr. Refaat Mokhtar</b>	Diversey Care, Richmond VA, USA	International Liaison

Conference Tracks Co-Chairs

<b>Dr. Hassan A. Alansary</b>	Minia University	Track 1
<b>Prof. Aly A. Farag</b>	U Louisville, USA	Track 2
<b>Prof. Moumen T. El-Melegy</b>	Assiut University	Track 2
<b>Dr. Samir A. Elzagheer</b>	Qassim University	Track 3
<b>Dr. Mohamed Abdel-Nasser</b>	Aswan University	Track 4
<b>Dr. Mohamed M. Ali</b>	Aswan University	Track 5
<b>Prof. El-Sayed Hasaneen</b>	Aswan University	Track 6
<b>Dr. Samia Heshmat</b>	Aswan University	Track 6
<b>Dr. Salah Kamel</b>	Aswan University	Track 7
<b>Dr. Karrar Mahmoud</b>	Aswan University	Track 7

## SCOPE OF THE CONFERENCE AND MAJOR THEMES

We are pleased to invite you to the second round of The International Conference on Innovative Trends in Computer Engineering (ITCE'2019). ITCE in its second round will be held in Aswan, Egypt during February 2019. The Conference is sponsored by IEEE and all of the accepted and presented papers will be indexed by the IEEE Xplore. ITCE'2019 provides a forum to exchange experiences and promote new ideas in the fields of computer engineering. Prospective authors are invited to electronically submit papers of their work in English language.

### TOPICS OF INTEREST:

Our conference focuses on the recent advances in different fields including but not limited to:

### TRACK 1: COMPUTER HARDWARE AND EMBEDDED/SMART SYSTEMS

- Processor, Cache, and Memory Architectures
- Parallel Computer Architectures
- Multi-Core and Multiprocessor Architectures
- Impact of Technology on Architecture
- Embedded/Reconfigurable Architectures
- GPGPU/APU Heterogeneous Systems
- Architectures for Cloud-Based HPC and Data Centers
- Impact of Compilers and System SW on Architecture
- Performance Modeling, Scalability, and Evaluation
- Architecture for Novel Application Workloads
- Energy Consumption for Green Computing
- Fault-Tolerant Computer Systems
- System on Chip (SoC)/Multiprocessing SoC (MPSoC)



### TRACK 2: IMAGE PROCESSING AND COMPUTER VISION

- Computer Vision Theory
- Stereoscopic, Multi-View, and Shape-from-X
- Low-level Vision/Image Processing
- Segmentation, Grouping and Shape Representation
- Medical Image Analysis/Document Analysis
- Biometrics/Action Recognition/Forensics and Content Protection
- Motion and Tracking/Detection, Categorization and Indexing
- Deep Learning for Computer Vision
- Optical Imaging
- Applications to Various Fields
- Virtual Reality

### TRACK 3: COMPUTER NETWORKS AND SECURITY

- Networking Techniques for 5G and mmWave
- Software Defined Networking (SDN)
- Recent Trends and Developments in Computer Networks
- Access, Ad-hoc and Sensor Networks
- Next Generation Internet, Network Based and Web Applications
- "Offensive-Defensive" Based Network Security Systems
- BlockChain Technology and Cryptocurrencies Security
- Cloud Computing Security
- Wireless, Vehicular and Ad-hoc Network Security & Privacy
- Cryptanalysis, Digital Forensics, and Threat Modeling
- Internet of Things (IoT) and Internet of Everything (IoE)

#### **TRACK 4: COMPUTING AND INFORMATION TECHNOLOGIES**

- Parallel and Distributed Computing
- Cloud and Fog Computing
- Cluster and Grid Computing
- Big Data Computing
- Quantum Computing
- Mobile Computing
- Machine Learning
- Bioinformatics
- Data and Information Visualization
- Distributed Systems and Databases
- E-Commerce Platforms, Models and Applications
- Management and Engineering of IT-Enabled Services
- Optimization Techniques

#### **TRACK 5: ADVANCED CONTROL, AUTOMATION, AND ROBOTICS**

- Industrial Process and Manufacturing Control
- Instruments and Vibration Control
- Intelligent and AI Based Control
- Intelligent Automation
- Web-Based Control and Autonomous Agents
- Factory Modeling and Simulation
- Industrial Networks and Automation
- Home, Laboratory and Service Automation
- Mobile Robots and Intelligent Autonomous Systems
- Human-Machine and Human-Robots Interfaces
- Robot Design, Development and Control
- Robot Advanced Motion Control
- Sensor-Robot and Robot-Robot Coordination
- Robot Task Assignment
- Cognitive Approach for Robotics
- Network Robotics

#### **TRACK 6: COMMUNICATIONS & ELECTRONICS**

- Access Networks and Systems
- Wireless Sensor Networks for Internet of Things
- Smart Grid and Power Line Communications
- Ad Hoc & Sensor Networks
- Wireless Networks/Mobile Networks/Radio Networking
- Next-Generation Networking
- Signal Processing for Communications

- Wireless Communications
- Antenna Design
- MIMO Wireless Communication Systems
- Emerging Technologies, Architectures and Services
- Laser Applications and Nanotechnology
- Electronic Devices and Circuits

#### **TRACK 7: COMPUTATIONAL METHODS IN POWER SYSTEMS**

- Computational Methods for Power System Analysis
- Applications of Intelligent Control in Power Systems
- Power System Optimization
- Renewable Energy Systems
- FACTS and HVDC Transmission Systems
- Microgrid and Distributed Generation
- Smart Grid Technologies
- Development of Transmission and Distribution Systems
- Energy Efficiency and Management
- Development of Power System Education Programs

#### **FEES AND REGISTRATION (6-Page Papers):**

- Regular Authors: 1500 L.E. - 500\$  
IEEE Member 1200 L.E. - 400\$
- Students 1200 L.E. - 400\$  
IEEE Students 1000 L.E. - 300\$
- Each Extra Page 100 L.E. - 50\$
- 50% Discount for 2<sup>nd</sup>/3<sup>rd</sup> Paper (Same Presenter)

#### **ITCE'2018 STATISTICS FROM EDAS:**

- Submitted Papers: 118
- Authors of Submitted Papers: 298
- Accepted Papers: 79
- Authors of Accepted Papers: 221
- Acceptance ratio: 67%
- Presented Papers: 76
- Submitted/Accepted Posters: 10
- Countries: Egypt, Spain, Pakistan, Hungary, Algeria, Japan, Slovenia, Iraq, Greece, Palestine, Russia, Brazil, Czech Republic, Canada, Italy, Australia, Kosovo, Sudan, and Saudi Arabia
- Indexed Papers in IEEE Xplore  
<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8308014>

A Tour from Aswan to Luxor is Included in the Fee



#### **SPONSORS:**



#### **GUIDE FOR AUTHORS**

- Submission Deadline of Papers  
**October 1<sup>st</sup>, 2018**
- Notification of Acceptance  
**November 15<sup>th</sup>, 2018**
- Deadline for Registration  
**December 1<sup>st</sup>, 2018**
- Final Camera Ready Submission  
**December 1<sup>st</sup>, 2018**