

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

SPECIAL TRACKS ON WIRELESS COMMUNICATION &
COMPUTATIONAL METHODS IN POWER SYSTEMS



2 - 4 February, 2019
Aswan, Egypt

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



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**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

**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(IIoE)

**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

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: WIRELESS COMMUNICATION

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

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):

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- Students 1200 L.E. - 400\$
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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 1st, 2018
- Notification of Acceptance
November 15th, 2018
- Deadline for Registration
December 1st, 2018
- Final Camera Ready Submission
December 1st, 2018