



FACULTY OF ELECTRICAL ENGINEERING,
COMPUTER SCIENCE AND INFORMATION
TECHNOLOGY OSISEK

2020 INTERNATIONAL CONFERENCE ON INNOVATIVE TRENDS IN COMMUNICATION AND COMPUTER ENGINEERING (ITCE'2020)

8 - 9 February, 2020
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 third round of The International Conference on Innovative Trends in Communication and Computer Engineering (ITCE'2020). ITCE in its third round will be held in Aswan, Egypt during February 2020. The Conference is sponsored by IEEE and all of the accepted and presented papers will be indexed by the IEEE Xplore. ITCE'2020 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

- Data Communication & Networking
- Mobile Security & Information Security
- Wireless / Mobile Communications
- MIMO Wireless Communication Systems
- Communication for intelligent transportation
- Optical & Satellite Communication
- Imaging and Visualization Devices

- Emerging Technologies, Architectures and Services
- Laser Applications and Nanotechnology
- Electronic Devices and Circuits
- VLSI Technology

TRACK 7: ANTENNAS AND MICROWAVES

- Antenna theory, design, and measurements
- Smart Antennas, Beamforming and MIMO
- Wave Propagation and Channel Modeling
- Wave Scattering and RCS
- NanoEM, Plasmonics, and Applications
- Metamaterials, FSS and EBG
- EM Field Theory and Numerical Techniques
- Spectrum Management and Monitoring
- RF, uWave, mmW and THz Measurements
- Microwave Field & Techniques
- Microwave Passive/ Active Components
- Microwave Systems & Applications
- Emerging Trends in Microwave

TRACK 8: SIGNAL PROCESSING AND EMBEDDED SYSTEMS

- Image & Video Processing
- Digital signal processing
- Radar Signal Processing
- Biomedical signal Processing
- Speech Synthesis & Signal Processing
- Audio / Speech Processing & Coding
- Pattern Recognition and Face & Motion Detection
- Computer Vision & Artificial Intelligence
- Real Time Systems
- Embedded Processors/ Networking
- Machine to Machine Solutions
- IoT (Internet of Things)

TRACK 9: 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: 1800 L.E. - 500\$
IEEE Member 1600 L.E. - 400\$
- Students 1600 L.E. - 400\$
IEEE Students 1400 L.E. - 300\$
- Each Extra Page 150 L.E. - 50\$
- 50% Discount for 2nd/3rd Paper (Same Presenter)

Important Dates

- Submission Deadline of Papers
October 1st, 2019
- Notification of Acceptance
November 15th, 2019
- Registration
December 1st, 2019
- Final Camera Ready Submission
December 1st, 2019

ITCE'2019 STATISTICS FROM EDAS:

- Submitted Papers: 146
- Authors of Submitted Papers: 414
- Accepted Papers: 90
- Accepted Posters: 10
- **Acceptance ratio: 68%**
- Presented Papers: 90
- Countries: Egypt, Saudi Arabia, Hungary, Spain, Japan, China, Singapore, Canada, United Kingdom, Hong Kong, Iraq, Korea, Germany, Indonesia, Italy, Lebanon, Tunisia, and Poland.
- Indexed Papers in IEEE Xplore
<https://ieeexplore.ieee.org/xpl/conhome/8640965/proceeding>