



Nile University 2019, Cairo, Egypt

Scope

The Novel Intelligent and Leading Emerging Sciences conference (NILES 2019) is held in the beautiful city of Cairo, Egypt. It aims at providing a platform for researchers, engineers, academics and industrial professionals to present their recent research work and to explore future trends in various areas of engineering and technology. NILES 2019 will feature plenary speeches, industrial panel sessions, funding agency panel sessions, poster sessions, and invited/special sessions. Contributions are expected from academia, industry, and government agencies.

The technical committee invites authors to submit 4-page papers (IEEE double-column format with references, figures and tables showing the originality, significance and applications, and the used techniques). NILES 2019 accepted papers will be submitted for inclusion on the IEEE Xplore. The full papers (without page numbers) should be submitted in PDF format through the online submission system EasyChair.

NILES 2019 will be organized into four tracks, with the list of technical areas in each track given below. Other research areas that fall within the four tracks are also welcomed. Proposals for workshops and special sessions on new topics or innovative applications are invited. (www.niles2019.org)

Track 1: Electrical Engineering and Technology

- Bio-impedance measurement techniques
- Smart agriculture
- IOT
- FPGA & ASIC design
- VLSI Design
- System on Chip and Embedded Systems
- Memristor and Memristive systems
- Fractional and Non-linear systems
- Analog and digital signal processing

Track 3: Industrial, Mechatronics and Mechanical Engineering

- Robotics and Automation
- Mechatronics Systems
- Sensor Technologies
- Hydraulic and pneumatic systems
- Fluids & Thermal Systems
- Dynamic Systems and Control
- Dynamics and Mechanical Vibrations
- Material Science and nanotechnology
- Industrial systems manufacturing
- Cooperative Intelligent Systems
- Advances for Process Industries

Track 2: Communication Engineering and Technology

- Communication Systems and Applications
- Ultra-Wideband Communications
- Signal Processing and Applications
- Cognitive Radio Communications
- Communication Networks and Applications
- Network Operations and Management
- Fourth Generation Wireless
- Wireless Optical Communications
- Renewable/Sustainable Energy and Smart Grids

Track 4: Computer Science and Engineering, Informatics, and Biomedical Engineering

- Information Security and Computer Networks
- Software Engineering
- Multimedia, Web and Mobile Applications
- Image, Speech, Audio and Video Processing
- Intelligent Systems and Artificial Intelligence
- Deep Learning and Representation Learning
- Parallel, Distributed and High-Performance Computing
- Code Generation and Optimization
- Computer Architecture and Quantum Computing
- Computational Bioinformatics and Metagenomics
- Embedded and Real-Time Systems

Organizing Committee:

General co-Chairs:

Tarek Khalil, NU
Ahmed Radwan, NU
Wael Akl, NU

Program Chair:

Ahmed Hassan, NU
Ahmed Madian, NU

Special Session Co-chairs:

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Conference Secretariat:

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Khaled Salama, KSA
Hassan Aboushady, France
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Estban Eltico, Mexico

Important Dates

- Special Session deadline: July 15, 2019
- Paper submission deadline: July 10, 2019
- Author notification: August 25, 2019
- Camera-ready version: September 15, 2019

Special session will be organized funded from Academy of Scientific research and technology (ASRT) to discuss the outcomes of JESSOR project # 2009 under title "wireless monitoring of fruit growth using an electrical bio-impedance sensor device". Speakers and experts in the field of bio-impedance will be invited to contribute in this session.