



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.

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 \(https://easychair.org/conferences/?conf=niles2019\)](https://easychair.org/conferences/?conf=niles2019).

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. (<http://demo.nu.edu.eg/niles2019/>)

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

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Ahmed Hassan, NU
Ahmed Madian, NU

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Hassan Aboushady, France
Ahmed Soltan, UK
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Estban Eltico, Mexico

Important Dates

- **Paper submission deadline:** July 28, 2019
- **Author notification:** August 25, 2019
- **Camera-ready version:** September 15, 2019