



October 10-11, 2012, German University in Cairo, New Cairo City, Egypt

<http://www.icet-guc.org/2012/>

## Scope

The International Conference on Engineering and Technology (ICET 2012) is held in conjunction with the German University in Cairo (GUC) 10th year anniversary 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. ICET 2012 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. All articles will undergo a rigorous review process. Accepted papers will be published in the conference memory stick and on the IEEE Xplore. Extended version of selected papers will be recommended for publication in special issues in refereed journals. ICET 2012 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.

### Track 1: Information Engineering and Technology

**Track Chairs:** Tallal Osama El-Shabrawy

- Green ICT Networks
- Cloud-Grid and Internet Computing
- Resource Management in Cloud Computing
- Energy Efficient Routing and Medium Access with Wireless Sensor Networks
- Indoor Localization and Tracking Algorithms
- Automatic Process Control using Wireless Sensor Networks
- Smart Home Automation Systems
- 3G/LTE Mobile Networks Applications
- Artificial Intelligence

### Track 3: Mechanical Engineering and Technology

**Track Chair:** Elsayed Imam Morgan

- Robotics and Automation
- Mechatronics Systems
- Sensor Technologies
- Hydraulic and pneumatic systems
- Fluids & Thermal Systems
- Dynamic Systems and Control
- Dynamics and Mechanical Vibrations
- Mechanical Design and Manufacturing
- Microsystems Integration
- Cooperative Intelligent Systems
- Advances for Process Industries

### Track 2: Electrical Engineering and Technology

**Track Chairs:** Abdelmegid Allam

- 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
- VLSI Design
- System on Chip and Embedded Systems

### Track 4: Materials Science and Engineering

**Track Chairs:** Nahed El-Mahallawy

- Materials characterization, modeling and performance
- Destructive and non-destructive testing, Microstructural characterization, Failure analysis
- Materials processing and product manufacturing
- Materials Applications/ energy/ biomedical / high temperature
- Materials-Environment interactions and protection
- New materials for structural and functional applications, innovative composites, functionally graded materials
- Materials recycling and other related topics

## Organizing Committee:

### Honorary Chair:

Prof. Dr. Ashraf Mansour  
GUC Prime Founder and  
Chairman of Board of Trustees

### General co-Chair:

Yasser G. Hegazy, Egypt  
Paul J. Kühn, Germany

### Program co-Chairs

Alaa Khamis, Egypt  
M. Seidenfuss, Germany  
Ahmed Abdel Aziz, Egypt

### Special Session /Workshops co-Chairs

Yasser Fouad, Egypt  
Henryk Bala, Poland

### Publication co-Chairs

Brando Okolo, Egypt  
Frank Gunzer, Germany  
Marc Ihle, Germany

### Finance Chair

Hisham El-Sherif, Egypt

### Local Arrangement co-Chairs

Sherine Salamony, Egypt  
Nermine Hashish, Egypt

### Conference Secretariat

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## Important Dates

- Special sessions proposal deadline: May 15, 2012
- Paper submission deadline: July 1, 2012
- Author notification: September 1, 2012
- Camera-ready version and author registration: September 15, 2012