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# IEEE Call for Papers



## 15<sup>th</sup> International Conference on Electrical Engineering (ICEENG-2025) 12-15 May 2025

Shape the Future of Electrical Engineering at ICEENG-2025  
 (Driving Next-Generation Engineering and Innovation)



ICEENG-2025, organized by the Military Technical College, will be held from 12-15 May 2025 in Cairo, Egypt, as part of the 13th International Conference of the Military Technical College. The event will bring together researchers from academia and industry to discuss advancements in Electronic Engineering, Computer Engineering and Control, Communication Engineering and Signal Processing, Electrical Power Engineering, Biomedical Engineering, and Artificial Intelligence. The program includes keynote speeches, technical and special sessions, and tutorials. A Student Best Paper Award will be offered for papers presented by MSc or PhD students, with the competition open to accepted papers where the student is the first author. Researchers are encouraged to submit papers for peer review in one of the conference tracks.

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### Location

Military Technical College, Kobry Elkobbah, Cairo, Egypt

**From:** 12-15 May 2025, Cairo, Egypt

**Organized by:** The Military Technical College, Cairo, Egypt

### Early Bird

### Regular

## Registration Fees

|                              | IEEE Member | Non-IEEE Member | IEEE Member | Non-IEEE Member |
|------------------------------|-------------|-----------------|-------------|-----------------|
| <b>Author</b>                | \$350 USD   | \$375 USD       | \$400 USD   | \$425 USD       |
| <b>Non-Author Attendance</b> | \$250 USD   | \$275 USD       | \$300 USD   | \$325 USD       |
| <b>Egyptian Residence:</b>   |             |                 |             |                 |
| <b>Author</b>                | \$60 USD    | \$70 USD        | \$70 USD    | \$80 USD        |



# Conference Tracks



## Navigation Engineering

- Robust Navigation Using Alternative Sensors Fusion
- Indoor and Urban Navigation
- Autonomous Navigation for Ground, Seaborne, and Airborne Vehicles
- Advanced GNSS Techniques (Integrity and Augmentation)
- Use of Artificial Intelligence, Machine Learning in Navigation
- Innovations in Navigation for Smartphones and Wearables



## Control Systems and Automation

- Aerospace, Naval, Automotive, Transportation, and Robotic Systems
- Learning, Optimal, Robust, and Adaptive Control
- System Modeling and Identification
- Industrial Process Control
- Networked Multi-agent Distributed Control Systems



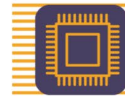
## Biomedical Engineering

- Biomedical Signal and Image Processing
- Bioinformatics and Computational Biology
- Biomechanics and Prosthesis Research
- Computer-Aided Diagnosis and Machine Intelligence
- Bioinstrumentation and Clinical Engineering
- Healthcare Information Systems and Technologies



## Computer Engineering and AI

- Advances in Artificial Intelligence
- Big Data, Data Science, and Knowledge Discovery
- Cybersecurity Challenges and Solutions
- Natural Language Processing and Generative AI
- Cloud Computing and Distributed Systems
- Trends in Computer Vision and Multimedia Processing
- IoT, Intelligent, and Autonomous Systems
- Embedded Systems and Multi-Core Technologies
- Modern Software Engineering
- E-Learning and Digital Transformation



## Electron Devices, Circuits and Systems

- Analog Circuit Design Techniques
- Nonlinear Circuits
- VLSI for Signal and Image Processing
- Parallel Embedded Systems
- Communications CAD Tools and Simulation and Design
- Layout (Placement, Routing, Floor Planning, Symbolic, ERC, DRC)
- Device Characterization and Modelling Process Technology



## Photonics Engineering

- Laser Sources and Technologies
- Optical Systems for Imaging, and Metrology
- Photonics Signal Processing
- Integrated Photonics and Applications



## Modern Communications and Networks

- Network and Information Security
- Blockchain-Enabled Networks
- IoT and Sensor Networks
- Mobile and Wireless Networks
- Space-Air-Ground Communications
- Integrated Sensing and Communication
- Next-Generation Networking and Internet Protocols
- Quantum Communication and Information Technology



## Microwave, Antennas, and Propagation

- Microwave Field-Matter Interaction, Material Sensing and High-Power Applications
- Microwave and Terahertz Photonics
- High-Power High-Gain Antennas.
- 3D Printed Antennas and Structures
- Improves Bone Health
- Indoor, Urban, and Terrestrial Propagation
- Channel Sounding Techniques



## RF/MW Circuits and Systems

- RF, Millimeter-Wave, and THz Integrated Circuit Front Ends
- Wireline Communication Circuits and Silicon Integrated Circuits
- Data Converters & Mixed Signal Circuits
- Semiconductor Technologies, Advanced. Packaging, and Heterogeneous Integration
- Advanced RF CMOS and SiGe BiCMOS Transistor Technology and Device Modeling
- RF Testing, Measurement Techniques, and De-embedding



## Remote Sensing

- Remote Sensing for Agriculture and Hydrology
- Microwave Remote Sensing
- Use of Artificial Intelligence, Machine Learning in Remote Sensing
- Earth Resources and Environmental Remote Sensing
- Remote Sensing Technologies



## Electrical Power Engineering

- Power System Planning, Control, and Stability
- Electrical Power Generation, Transmission, and Distribution
- Electrical Machines and Drives
- Power Electronics Topologies and Applications
- Renewable Energy Systems and Smart Grids
- High-Voltage Engineering
- Protection of Power Systems



## Signal Processing

- Signal and Data Processing in Radar Systems
- Artificial Intelligence Aided Signal Processing
- Design and Implementation of Signal Processing Systems
- Sensor Array and Multichannel Signal Processing
- Security and Multimedia Signal Processing
- Signal Processing for Integrated Sensing and Communication Systems
- Signal Processing for Software Defined and Cognitive Radio

### Important Dates



26 January 2025  
Paper Submission



13 February 2025  
Paper Submission Deadline



16 March 2025  
Acceptance Notification



6 April 2025  
Camera Ready Submission



until 10 April 2025  
Early Bird Registration



after 10 April 2025  
Regular Registration



12 MAY 2025  
Conference Start Date

