



International Competition on Smart Innovation Technologies IC-SIT'2023

Monday, 17 July 2023
Alexandria, Egypt.

The IC-SIT'2023 Golden Sponsorship



SCGRS Technological – Cairo – Egypt



High Institute of Engineering and Technology

King Marriott – Alexandria – Egypt

The IC-SIT'2023 Technical Cosponsor



IEEE Antennas and
Propagation Society



MTT-S
IEEE MICROWAVE THEORY
& TECHNOLOGY SOCIETY



Integrated Engineering
Solutions



IEEE
Alexandria Subsection



IEEE HORUS STUDENT BRANCH



IEEE
youngprofessionals
Antennas and Propagation Society



IEEE
youngprofessionals
مصر | Egypt



Egypt Chapter



IEEE | Alexandria
Student Branch



About IC-SIT'2023 Competition

- This competition aims to stimulate students' interests, excite them, and enable them to understand and experience the role of engineering in scientific and engineering innovation.
- This is an annual event where high school and college students can work with engineering and business professionals to design or invent a product to show off.
- The competition will culminate in an exhibition of project displays, final judging, and award presentations in Alexandria, Egypt.
- The competition will be divided into levels and categories.

Challenge Areas (30 topics)

- Electrical and electronic engineering.
- Computer science and engineering.
- Aerospace engineering.
- Computer programming.
- Computing / mathematics / statistics.
- Microprocessor and control systems.
- Communication / encryption / coding.
- Astronomy and physics.
- Biochemistry and Chemical engineering.
- Integrated electronic circuitry.
- Internet / IOT / networks.
- Fiber optics / lasers / LEDs.
- Artificial satellites.
- Nanotechnology.
- Virtual / augmented reality.

Challenge Areas (30 topics)

- Microwave engineering.
- Navigation and localization.
- Radar and their applications.
- Mechatronics and robotics.
- Computer network architecture / software development.
- Solar / wind / renewable energy.
- Sound detection / sonar / acoustics.
- Power transmission and distribution.
- Information technology and security.
- Transistor technologies.
- Wearable technology.
- Navigation and guidance.
- Wireless and mobile communications / networks.
- Artificial intelligence and biomedical engineering.

College or Institute, University Participations

- ▶ Mechanical Department, Faculty of Engineering, Alexandria University
- ▶ Biomedical Engineering Department, Faculty of Engineering, Mansoura University, Dakahlia
- ▶ Alexandria Higher Institute of Engineering and Technology
- ▶ El-Shorouk Academy
- ▶ Misr Higher Institute for Commerce & Computers in Mansoura
- ▶ Higher Institute of Engineering, El-Shorouk Academy
- ▶ Misr Higher Institute of Engineering and Technology in Mansoura
- ▶ Faculty of Computers and Artificial Intelligence, Benha
- ▶ Cairo University
- ▶ Egypt Japan University for Science and Technology, New Burj Al-Arab, Alexandria

College or Institute, University Participations

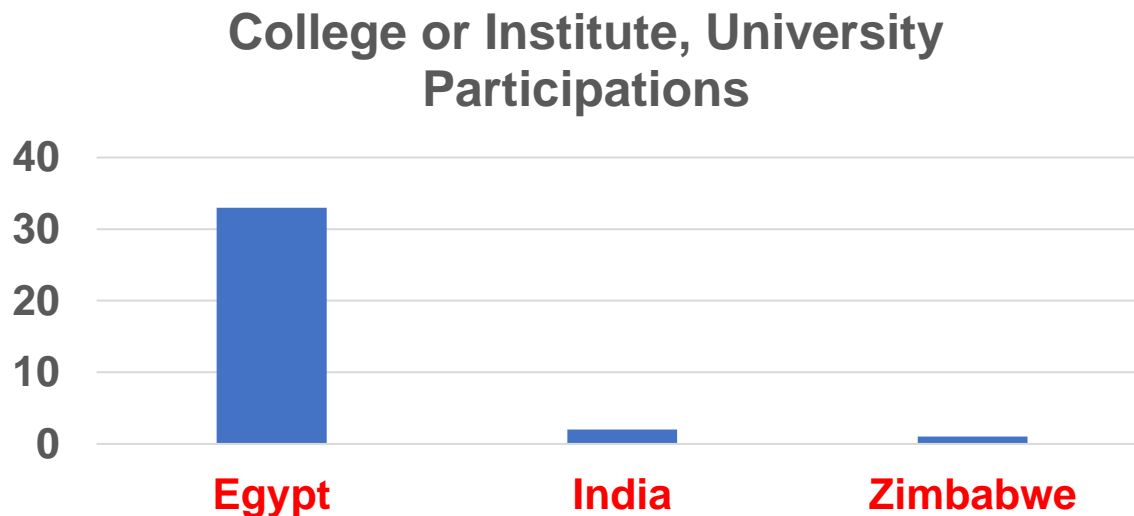
- ▶ Biomedical Engineering, Mansoura University
- ▶ Faculty of Computers and Informatics, Zagazig University, Sharqia
- ▶ Faculty of Computers and Artificial Intelligence - Cairo University
- ▶ Higher Institute of Engineering and Technology in New Damietta
- ▶ Faculty of Engineering, Egypt Japan University
- ▶ ***G.D. Goenka University, India***
- ▶ Faculty of Engineering, Alexandria University
- ▶ Delta University for Science and Technology
- ▶ Damietta University
- ▶ ***Harare Institute of Technology, Zimbabwe***
- ▶ Misr University for Science and Technology

College or Institute, University Participations

- ▶ Higher Obour Institutes
- ▶ Faculty of Engineering Al-Azhar University
- ▶ Kafr-Elshiekh University
- ▶ Computer Science, Arab Academy for Science, Technology, AAST, Smart-Village
- ▶ Mansoura University
- ▶ The Higher Institute of Engineering and Technology in El-Mahalla El-Kubra
- ▶ Higher Technology Institute of Engineering 10th of Ramadan
- ▶ Department of Electronics and Communications Engineering, Faculty Of Engineering, Delta University For Science And Technology
- ▶ Faculty of Engineering, Menoufia University
- ▶ Arab Academy for Science, Technology, and Maritime Transportation

College or Institute, University Participations

- ▶ Misr Higher Institute for Engineering and Technology Academy
- ▶ Faculty of Computers and Information, Zagazig University
- ▶ Alexandria Higher Institute of Engineering and Technology
- ▶ ***Sri Sairam Institute of Technology, India***
- ▶ Communication and Electronics, High Engineering Institute, El-Shorouk Academy

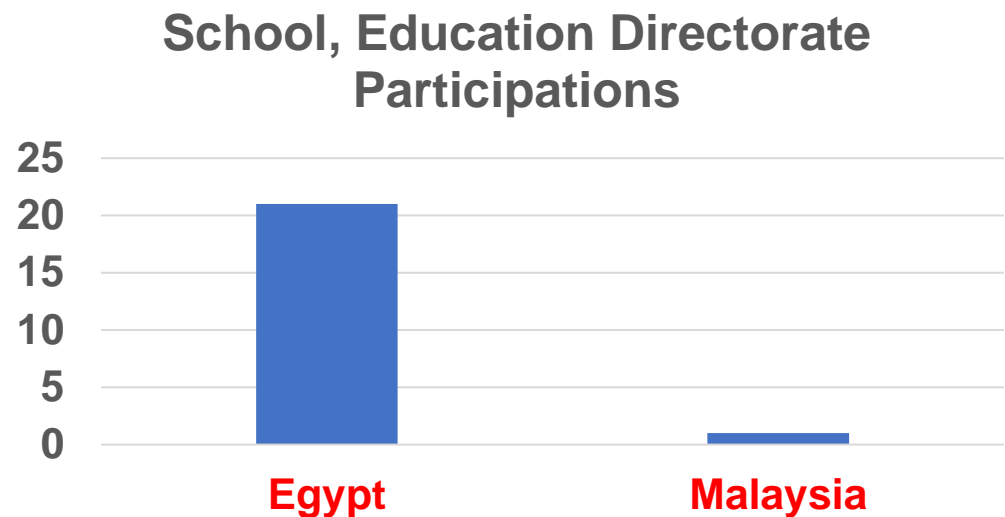


School, Education Directorate Participations

- ▶ Dakahlia STEM High School, Belqas Education Directorate, Dakahlia
- ▶ STEM 6th Of October High School for Boys
- ▶ El-Fayoum STEM School
- ▶ Obour STEM School, Obour Education Directorate, Qaliubya
- ▶ Alexandria STEM School, Burj Al-Arab, Alexandria
- ▶ Dakahlia STEM School, Gamsa, Egypt
- ▶ El Shahid Ali Khater Language School Alexandria, Egypt
- ▶ Luxor STEM School, Luxor, Luxor
- ▶ Qena STEM School
- ▶ El-Motaheda 2 Language School
- ▶ Sharkia STEM School, Zagazig, Sharkia

School, Education Directorate Participations

- ▶ *Smk (L) Methodist Sentul, Kuala Lumpur, Malaysia*
- ▶ STEM KFS High School
- ▶ Gharbiya STEM School
- ▶ El-Fayoum STEM School
- ▶ Sohag STEM School
- ▶ Tanta School
- ▶ Alexandria School
- ▶ El Nel School, Beni Suef
- ▶ El-Sadat STEM School
- ▶ Elmalab High School, Dakahliya
- ▶ Mohamed Zahran Language Schools, Sharq Directorate, Alexandria Governorate



The IC-SIT'2023 Competition Phases

Phase I

Registration

Proposal
(313)

Results
(Accept /
Reject)

Phase II

**Phase I
Qualifiers'**

**Full Project
Document**
(110)

Results
(100 Points)

Phase III

**Phase II
Winners**

Project Video
(77)

Results
(10 Points)

Final

**Phase III
Awards**

**Project
Practical**
(55)

Results
(20 Points)

Technical Program Committee (98 members)

- Cairo University.
- Minia University.
- Menofia University.
- Egyptian Russian University.
- Zagazig University.
- Military Technical College.
- Alexandria Higher Institute of Engineering & Technology.
- German University in Cairo.
- **Safran Electronics and Defense, Canada.**
- Misr University for Science and Technology, MUST.
- Egypt-Japan University of Science and Technology.
- Misr Higher Institute for Engineering and Technology.
- Arab Academy for Science and Technology.
- Kafr-Elsheikh University.
- High Institute of Engineering and Technology in King Marriott.
- American University in Cairo.

Technical Program Committee (98 members)

- **PSATRI, the Kingdom of Saudi Arabia (KSA).**
- Alamein International University.
- Canadian International College Engineering Institute.
- National Telecommunication Institute (NTI).
- Faculty of Computers and Artificial Intelligence.
- Banha University.
- New Mansoura University.
- Port Said University.
- Air Defense College.
- October 6 University.
- Delta University For Science and Technology.
- The British University In Egypt.
- Hours University.
- Alexandria University.
- Mansoura University.

Technical Program Committee (98 members)

- Tanta University.
- Nile University.
- Ahram Canadian University.
- University of Glasgow, Ireland.
- Enavy R & D Center.
- Higher Institute of Engineering and Technology in New Damietta.
- Zewail City for Science, Technology, and Innovations.
- Higher Institute for Engineering and Technology, Manzala.
- **Ministry of Civil Aviation.**
- Exploration Center for Science and Technology.
- Egyptian Research and Development Center.
- Pharos University in Alexandria.
- Nile Higher Institute for Engineering and Technology.



IC-SIT'2023 Competition Video Links

<https://www.youtube.com/watch?v=s6WA90KlvCo>

<https://www.youtube.com/watch?v=f0znsMPU3gw>



Thank You