

IES – Collaboration for better Outcomes

Yousef Ibrahim

Date: 15 October 2022

Venue: Cairo

IEEE Mission. . .

**“Foster Technological
Innovation & Excellence
for the
Benefit of Humanity”**

IEEE Vision. . .

“The IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro and information technologies and sciences for **the benefit of humanity and the profession**”

Fostering Technological Innovation and Excellence – Then and Now

AIEE (1884) – American Institute of Electrical Engineers

- ▶ **Founded by American industrialists to develop a skilled workforce; prepare standards for U.S. electrical industries**

IRE (1912) – Institute of Radio Engineers

- ▶ **Founded by radio electronics pioneers**
- ▶ **Did not feel fully at home in electric power-oriented AIEE**
- ▶ **Differed from the AIEE - positioned at inception to be global**

IEEE (1963) Institute of Electrical and Electronics Engineers from AIEE & IRE

IEEE

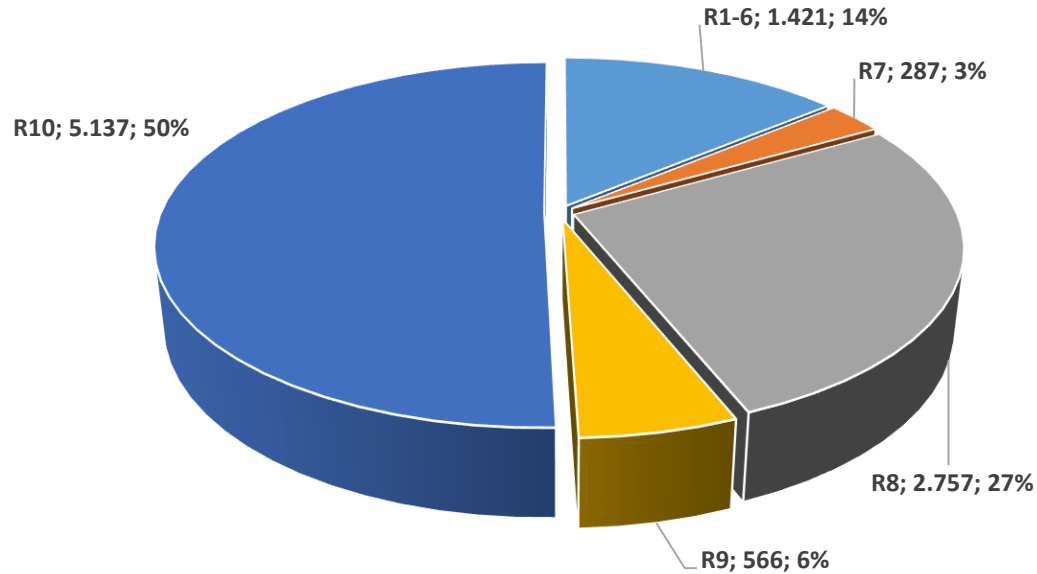
Industrial Electronics Society

- ▶ Established 1951 (71 Years ago),
- ▶ Membership around 10,000 Engineers, academics and scientists around the world,
- ▶ Financially sponsor and co-sponsor 17 International Conferences world-wide.
- ▶ Technically Sponsor and Co-sponsor about 30 international conferences world-wide.
- ▶ Publications: 2 Transactions + Industrial Electronics Magazines + 2 Recent Journals

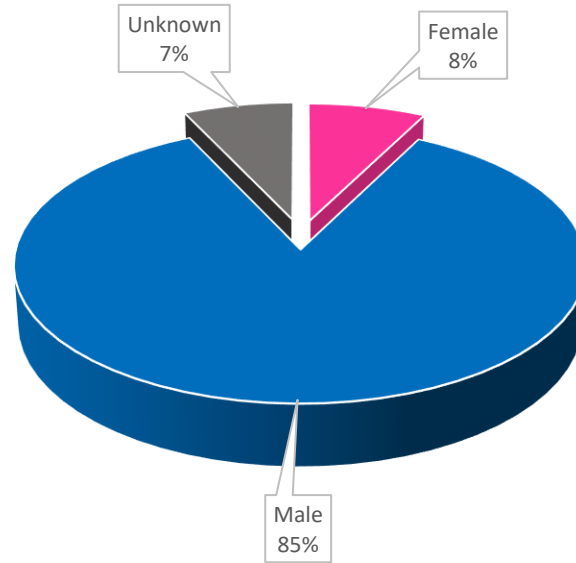
IEEE Regions



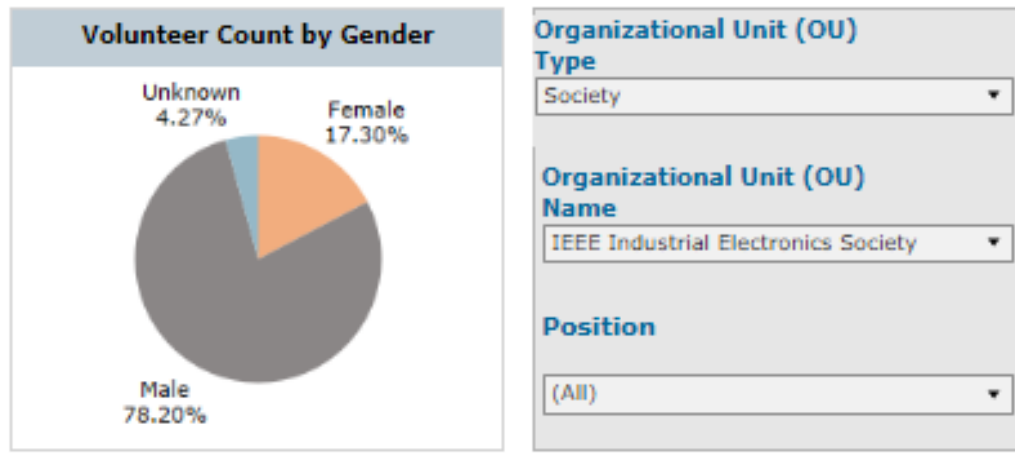
IES Membership Distribution by Region (end of 2021, Total: 10,168)



IES Membership by Gender (2022)



IES Volunteers by Gender (2022)



Ways to Support your Section Members

▸ Chapters

- **New start up grant**

- New Chapters/Joint Chapter may receive a start up grant of up to \$1,000

- **Best Chapter Award**

- A plaque, \$1K and Travel expenses to receive the award at our AdCom meeting.

- **Support to Chapters Local Activities (SCLA)**

- \$50k/year. A Chapter can apply for a maximum of \$5k grant/year. There is a presentation next week to increase the amount to \$100k/year.

- **Inter-Chapter Competition**

- The objective of this exercise to further energise and maintain the communications not only between the chapters and the societies but between the chapters and each other.

Ways to Support your Section Members (Cont'd)

► Students Branch Chapters (SBC)

- **Best Student Branch Chapter Award (new award)**

- Upon initiating this new award, it was presented to TAB and approved last year. It will be offered in Brussels next week.

- **Support to SBC Local Activities (new scheme)**

- Support to SBC Local Activities scheme was established.
- Each SBC can apply for up to \$1000/year.
- All applicants this year got supporting funds.

- **Inter-SBC Competition (new annual exercise)**

- Initiative for energizing the growing number of SBC's

The prizes are as follows:

- First Prize: \$700 and a Certificate of Achievement
- Second Prize: \$500 and a Certificate of Achievement
- Third Prize: \$300 and a Certificate of Achievement

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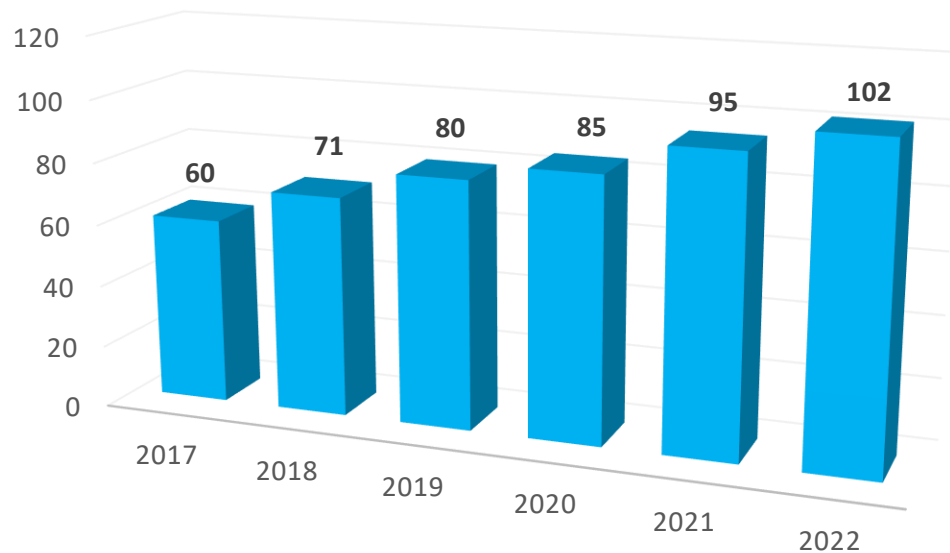
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Ways to Support your Section Members

► Students & Young Professionals

- **Generous support for students to participate in our major conferences.**
 - Up to \$2000 travel funds, based on merits with high level workshops and students' activities.
- **Women in Engineering**
 - Comprehensive programs for women in Engineering with an annual support of ~\$40,000

IES Chapters Growth



Recent IES Chapters Growth

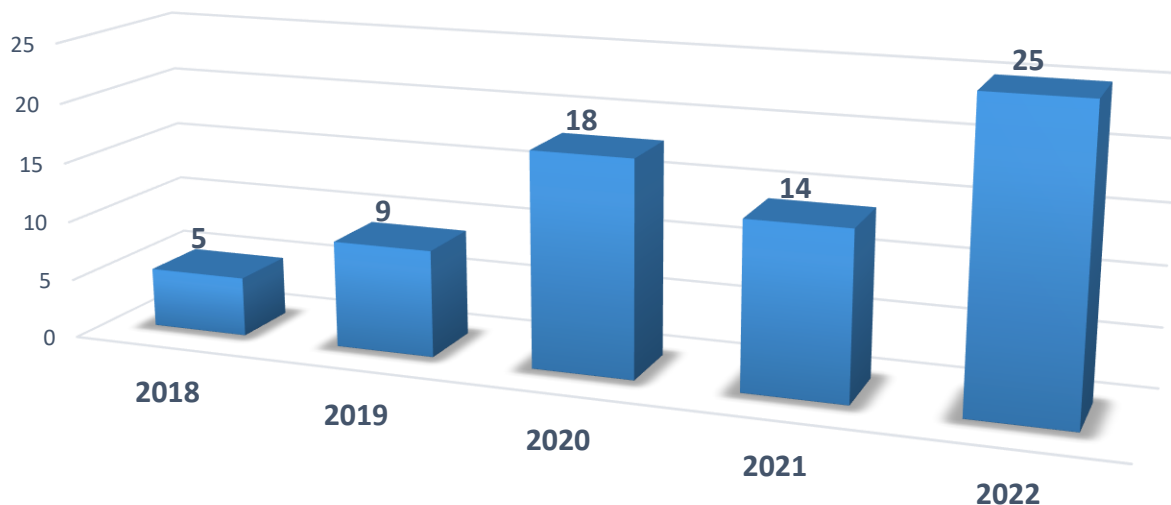
39 New Additional Chapters

representing

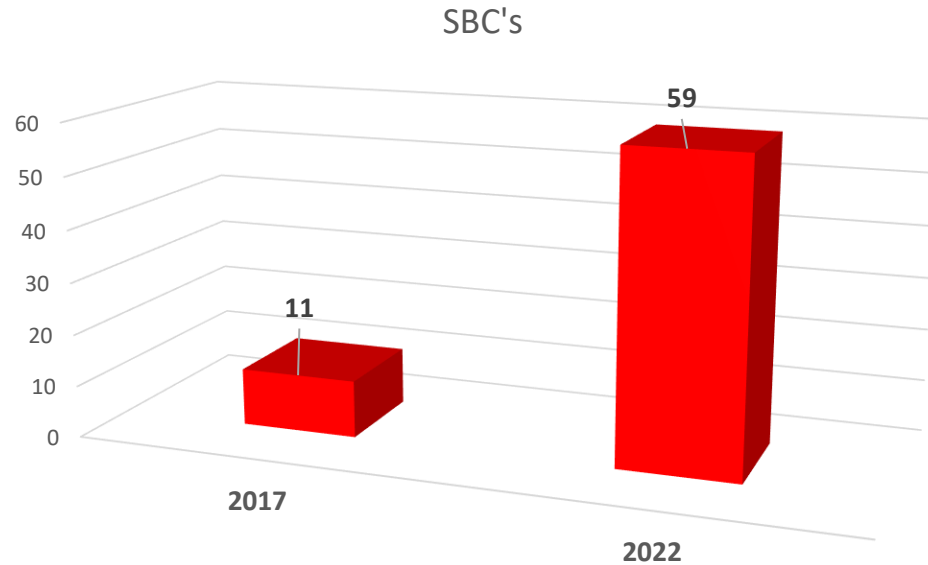
65% Increase in our Chapters within 5 years

Support to Chapter Local Activities (SCLA) Grants

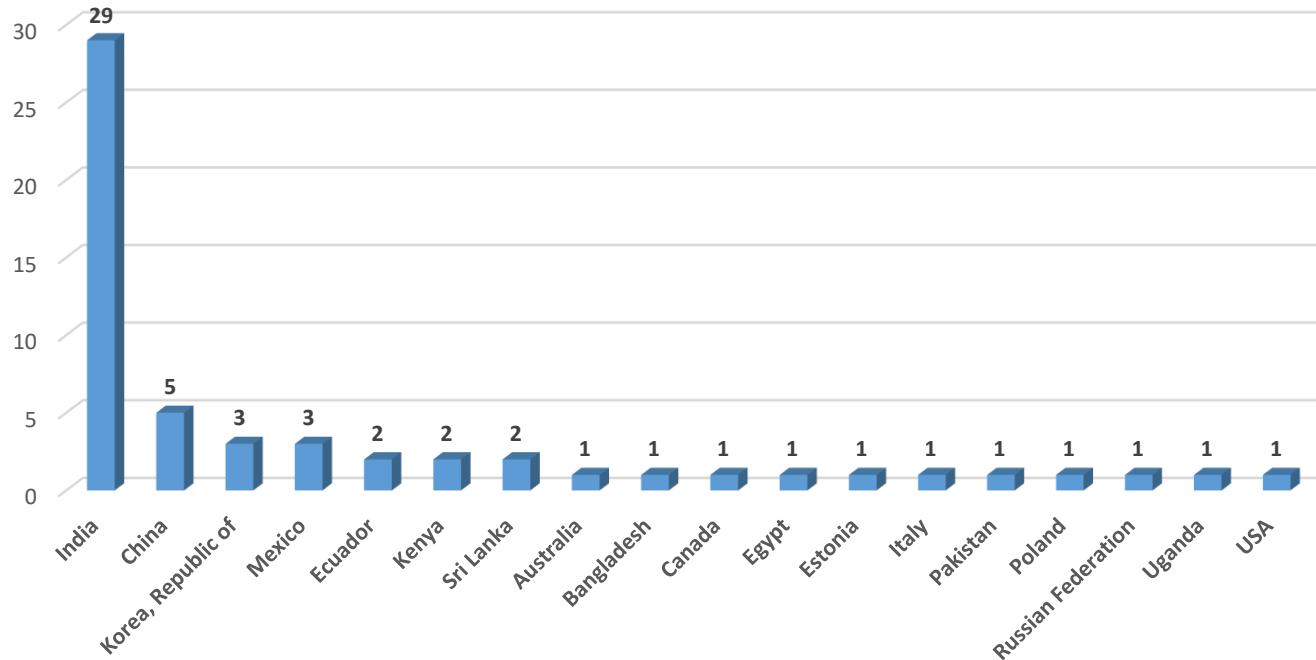
Number of Applied Chapters



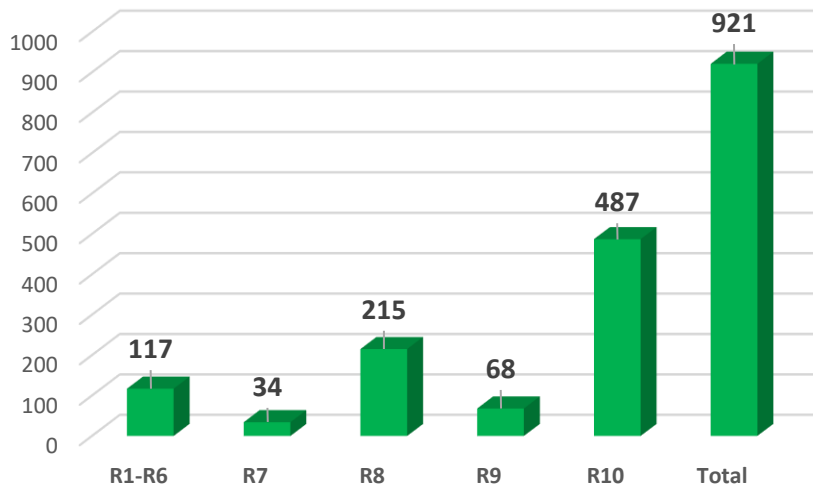
Student Branch Chapters Growth (272%)



Student Branch Chapters per Country (59 IES SBC's)



Members Renewed for the first time in 2021



For the first time - **IES Rapid Growth in Africa!**

- ▶ **NEW IES Chapters Established in *Central Africa***

- Kenya
- Uganda
- Nigeria (*under construction – Petition being made*)

- ▶ **New IES Chapters Established in *North Africa***

- Tunisia
- Libya
- In addition to Egypt and Algeria

- ▶ ***South Africa***

- We have a chapter in South Africa and in Algeria

Publications

- ▶ Transaction on Industrial electronics (IF=**8**)
- ▶ Transaction on Industrial Informatics (IF = **10**)
- ▶ Industrial electronics Magazine (IF= **8.36**)
- ▶ Journal of Emerging and Selected Topics in Industrial Electronics (New)
- ▶ Open Journal of the Industrial Electronics Society (New – Open Access)

Technical Committees			
1	Building Automation, Control and Management	12	Renewable Energy Systems
2	Control, Robotics and Mechatronics	13	Sensors and Actuators
3	Education in Engineering and Industrial Technologies	14	Standards
4	Electrical Machines	15	MEMS & Nanotechnologies
5	Electronic Systems on Chip (ESOC)	16	Human Factor
6	Factory Automation	17	Smart Grids
7	Industrial Agents	18	Resilience and Security for Industrial Applications
8	Industrial Informatics	19	Automotive Technology
9	Motion Control	20	Energy Storage
10	Network-based Control Systems and Applications	21	Data Driven Control and Monitoring
11	Power Electronics	22	Transportation Electrification
23	Cloud and Wireless Systems for Industrial Applications	24	Technology Ethics and Society

Membership Advantages

- ▶ **Close interaction with world's experts in 24 Technical Committees.**
- ▶ **Discounted conference registration fees.**
- ▶ **Travel Support for Students and Young Professionals (based on merits).**
- ▶ **Being “truly” an international society with most members, officers and volunteers from outside USA.**
- ▶ **There is always room for voluntary work and professional contribution.**

**We Look forward to help Members in Your
Section through their technical activities
to achieve their potentials
and ...**

We Achieve our Common Objectives

- ▶ I wish to thank
 - Prof Antonio Luque, Director, IEEE Region 8
 - The organizing committee of this R8 meeting

Thank You for Your Attention

Yousef Ibrahim

Vice-President, Membership Activities

**Industrial Electronics Society
(IES)**

