

Egypt Section

Ahmed Madian

Section Vitality

Please provide information about the date of last Section elections, date of next elections, and do you have the practice of Vice-Chair becoming the next Section Chair. Section ExCom meetings (list them and provide brief summary if appropriate). List the activities carried out to retain and recruit members and the results obtained.

- The date of the last Section elections: September 17, 2023.
- the date of the next Section elections: It will be defined later, but will most probably be from August 2025 to November 2025.
- The section ExCom meetings are held monthly to discuss some admin topics, overview on the planned activities, and evaluate the organized activities.

The activities carried out to retain and recruit members:

- Several activities have been conducted with the aim of retaining and recruiting members at all levels, including Sponsoring Technical Conferences and giving the IEEE Members a special discount on the level of IEEE Professional and Higher Grades Members, Different YP Programs, such as Made in Egypt (MIE) has been held targeting students and graduate student members, and many Sectional Student Activities as the Officers Meeting targeting the Studnet Members.
- Some generic Activities have been held targeting all grades of IEEE members, such as the IEEE Day Egypt Section Celebration, IEEE Egypt Section Closing Ceremony, and IEEE Egypt Section Iftar gathering.
- In all possible means, the IEEE Membership Awareness was conducted during the Sectional Events.

Results obtained:

- The number of IEEE members within the Egypt Section has increased to the largest number during the last 3 years, as per the shown Figure comparing the IEEE Egypt Section Members within the years 2023, 2024, and 2025.

Total IEEE Membership



- More Specific Numbers can be found in the following table:

	January	February	March	April	May	June	July	August	September	October	November	December
2025	1,876	1,144	1,124	1,192	1,209	1,249	1,373	1,496	1,467	1,651	1,741	1,796
2024	1,833	985	1,124	1,192	1,209	1,249	1,373	1,496	1,467	1,651	1,741	1,796
2023	1,838	1,080	1,119	1,201	1,205	1,286	1,375	1,426	1,448	1,536	1,691	1,787

- The Egypt Section achieved a renewal percentage of 44.8% through the last 5 months **achieving 97.6% of the retention goal** for the 2025 membership year with a **better performance than the previous year of 250%** as per the following:



- The Egypt Section **recruited new 450 IEEE Members** through the last 5 months **achieving 59% of the recruitment goal** for the 2025 membership year with a **better performance than the previous year of 20%** as per the following:



Students

List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting. List the student meetings held and Section activities addressed to Students and Young Professionals.

List of Student Branches (SBs) in the Section

The IEEE Egypt Section currently comprises a total of 78 Student Branches, listed as follows:

- Ahram Canadian University
- Alexandria University
- Ain Shams University
- Akhbar El-Yom Academy
- Al Ryada University for Science & Technology
- Alamein International University
- Al-Azhar University
- Al-Azhar University - Faculty of Engineering
- Al-Safwa High Institute of Engineering
- Alexandria Higher Institute of Engineering & Tech
- American University in Cairo
- Arab Academy for Sci Tech & Maritime Trans-Aswan
- Arab Academy for Sci Tech & Maritime Trans-Cairo
- Arab Academy for Sci Tech & Maritime-Smart Village
- Arab Academy for Science Tech & Maritime Transport
- Assiut University
- Aswan University
- Badr University in Cairo
- Benha University
- Benha University - Benha
- Beni-Suef University
- British University in Egypt
- Canadian International College (CIC)
- Cairo University
- Damietta University
- Egypt University of Informatics
- Egypt-Japan University of Science and Technology
- Egyptian Academy for Engineering and Advanced Tech
- Egyptian Chinese University
- Egyptian Russian University
- El Shorouk Academy
- El-Gazeera Higher Institute of Engineering & Tech
- Future University in Egypt (FUE)
- Fayoum University
- Galala University
- German University in Cairo
- Heliopolis University-Cairo
- Helwan University

- Helwan University - Mataria
- Helwan University Faculty of Computer & AI
- Higher Inst of Eng and Tech, New Damietta
- Higher Institute for Eng and Tech at Manzala
- Higher Technological Institute
- Higher Technological Institute-6th of October City
- Higher Institute of Engineering and Technology (New Cairo)
- Horus University-Egypt
- Institute of Aviation Engineering and Technology
- Kafrelsheikh University
- Knowledge Hub Universities
- Luxor University
- Mansoura University
- Mansoura National University
- Menoufia University
- Minia University
- Misr Higher Institute for Engineering & Technology
- Misr International University
- Misr University for Science & Technology
- Modern Academy for Engineering and Technology
- Nahda University
- Newgiza University
- Nile University
- Obour Computer Science High Institute
- Obour Engineering High Institute
- October 6 University
- October High Institute for Engineering & Technology
- October University for Modern Sciences and Arts
- Pharos University in Alexandria
- Port Said University
- Sohag University
- South Valley University
- Suez Canal University
- Suez University
- Tanta University
- University of Hertfordshire-GAF
- Zagazig University
- Zewail City of Science and Technology
- Higher Institute In luxor
- King Salman International University

Newly Formed Student Branches:

- King Salman International University
- Alamein International University
- Higher Institute in Luxor

Key Activities

IEEE Day Egypt 2024

IEEE Day Egypt 2024, orchestrated under the auspices of the IEEE Egypt Section in strategic collaboration with IEEE SAC Egypt, stood as a hallmark event, exemplifying the cohesion, engagement, and strategic alignment of IEEE volunteers nationwide. This flagship gathering convened over 650 participants, encompassing Student Branches, Technical Chapters, Affinity Groups, Young Professionals, and Section Officers, fostering multidimensional collaboration, intellectual exchange, and professional networking.

Distinguished by its section-wide scope and high-impact engagement, the event served as a conduit for cross-disciplinary knowledge transfer, reinforcing the synergy between emerging professionals and seasoned IEEE leadership. The steadfast growth of IEEE Day Egypt underscores its pivotal role in strengthening IEEE's volunteer ecosystem, catalyzing intergenerational mentorship, and driving sustainable advancements in technological and professional development.



IEEE Egyptian Student Paper Contest (ESPC) 2024

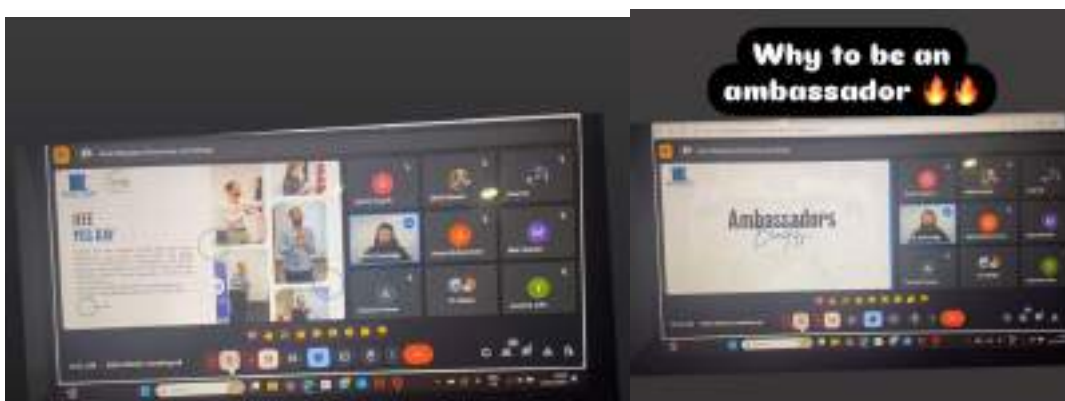
The IEEE Egyptian Student Paper Contest (ESPC) 2024, organized under the IEEE Egypt Section and IEEE SAC Egypt, continues to foster research excellence and technical writing proficiency among undergraduate students. This year, the contest received 15 research papers at the sectional level, with 9 advancing to the IEEE Region 8 level, reflecting the growing engagement and quality of submissions.

ESPC 2024 attracted a total of 200 participants, including both contestants and attendees. In addition to the competition, the program featured educational sessions designed to enhance participants' understanding of research methodologies and scientific writing fundamentals.



IEEE Egyptian Student Officers Meeting Q4 2024

Building upon the momentum of its three preceding editions, the IEEE Egyptian Student Officers Meeting Q4 2024 convened virtually in December, uniting Student Branch officers from across the nation in a high-impact knowledge exchange. This strategic assembly served as a catalyst for leadership development, operational excellence, and strengthened synergy between IEEE SAC Egypt and Student Branch executives. The agenda encompassed critical discussions on "Leading a High-Impact Student Branch," "IEEE and IEEE MGA Frameworks," IEEE Awards, and IEEE Programs, equipping attendees with indispensable insights to navigate organizational challenges and drive sustainable growth. By fostering a culture of collaboration and strategic alignment, this meeting remains instrumental in empowering IEEE student leaders and fortifying the foundation of IEEE operations at the university level.



IEEE Egypt Student Branch Officers Meeting Q1 2025

Building on the momentum of four successful meetings in 2024, the IEEE Egypt Student Branch Officers Meeting Q1 2025 was held in February, uniting Student Branch officers from across Egypt for an intensive series of sessions designed to enhance their leadership and operational expertise. The meeting provided a comprehensive exploration of IEEE resources and best practices, equipping officers with the tools necessary for effective branch management.

Throughout the event, attendees participated in specialized sessions covering IEEE vTools, offering a detailed walkthrough of its functionalities to streamline administrative processes. Another key session focused on IEEE MGA SAC funds, providing insights into available financial opportunities and effective fundraising strategies. Additionally, discussions on IEEE programs highlighted various initiatives that Student Branches can leverage for growth and engagement. The event also featured a technical session on IEEE web hosting, guiding officers on establishing and maintaining professional IEEE-hosted websites. Furthermore, participants explored the process of starting an IEEE Industrial Applications Society (IAS) Chapter, gaining practical knowledge on launching and managing a successful IAS entity. The meeting also delved into IEEE SIGHT and the establishment of SIGHT Affinity Groups, emphasizing the importance of humanitarian technology initiatives within IEEE.





IEEE TechTours

TechTours, an initiative led by the IEEE Egypt Section Industrial Engagement Committee and IEEE Students Activities Committee, aims to bridge the gap between academia and industry by providing IEEE members with firsthand exposure to leading technological and industrial environments. The initiative successfully organized two editions: the Fall Edition, which featured a visit to a key industrial destination, and the Winter Edition, which expanded significantly to include five stops at top industrial companies in Egypt. Through these exclusive visits, participants gained valuable insights into cutting-edge technologies, industry trends, and professional best practices, reinforcing IEEE’s commitment to fostering stronger industry-academia collaboration and professional development.





IEEE Entrepreneurship Week 2024

After the success of its first two editions, the third edition of IEEE Entrepreneurship Week continued to make an impact, bringing together aspiring entrepreneurs, industry experts, and IEEE members for an engaging and insightful experience. The event covered key topics essential for entrepreneurial success, including strategic management for entrepreneurs, business agility, mastering the art of pitching, the Egyptian entrepreneurship ecosystem, and the tech trends that will shape the next decade. A key part of the event was the entrepreneurship competition, where participants had the opportunity to present their ventures and innovative ideas. The competition aimed to identify the most promising startups, with the national winners advancing to the regional level



IEEE Officers' Friday Night

IEEE Officers' Friday Night is a weekly gathering that brings together IEEE officers from across Egypt to foster collaboration, address challenges, and enhance leadership effectiveness. Held every Friday, the meeting serves as an open platform for discussion, allowing officers to exchange experiences, seek guidance, and explore solutions to the challenges they face in managing their Student Branches, Technical Chapters, and Affinity Groups. Beyond problem-solving, Friday Night Meetings are also a space for knowledge sharing, where officers receive insights on IEEE programs, resources, and best practices. This initiative strengthens the connection between IEEE SAC Egypt and the student leadership community, ensuring that volunteers are well-equipped to lead, innovate, and contribute to the growth of IEEE in Egypt.



Egyptian Consultants Congress of Artificial Intelligence (ECC-AI 2024)

The Egyptian Consultants Congress of Artificial Intelligence (ECC-AI) was a premier event bringing together thought leaders, industry experts, policymakers, and academics to explore the transformative potential of Artificial Intelligence (AI) across various sectors. The congress aims to foster collaboration, share innovative ideas, and discuss the latest advancements in AI applications, with a focus on education, healthcare, cybersecurity, digital transformation, governance, and legislation. Through engaging talks, workshops, and networking opportunities, ECC-AI serves as a platform to drive forward Egypt's AI ecosystem and inspire impactful solutions for national and regional challenges.



IEEE R8 Computer Society Students and Young Professionals Congress 2024:

The first-ever Region 8 Computer Society Students and Young Professionals (R8 CS SYP) Congress was successfully organized by IEEE Young Professionals Egypt from November 30 to December 3, 2024, in Egypt. The event brought together 180 attendees from across IEEE Region 8, including students, young professionals, and industry experts, providing them with networking opportunities, technical sessions, and career development resources.

Key Highlights:

- **Distinguished Participation:** The congress hosted VIPs from IEEE MGA, the IEEE Computer Society Board of Governors (CS BOG), and Region 8 keynote speakers, who shared insights on emerging technologies and professional growth.
- **AI & Emerging Technologies:** Sessions explored the impact of AI on the job market, AI-powered tools, and technological advancements shaping the future.
- **IEEE Computer Society Tech Forum (CSTF) Contribution:**
 - A keynote speech by Sneha Hegde and Cybele Ghanem on IEEE CSTF initiatives.
 - A panel discussion on ‘The Role of AI and IoT in Achieving SDGs’, featuring industry and academic experts.
- **Competitions & Innovation:** Participants engaged in technical challenges, skill-building workshops, and discussions on entrepreneurship and innovation.

The R8 CS SYP Congress successfully fostered collaboration between students, young professionals, and IEEE leaders, enhancing engagement within the IEEE Computer Society community and paving the way for future initiatives in Region 8.



NASA Space Apps Cairo - 10th version

The NASA International Space Apps Challenge (Space Apps) is a global 48-hour hackathon that takes place simultaneously in cities around the world, bringing together technologists, scientists, designers, artists, educators, developers, entrepreneurs, and students to solve some of the world’s most pressing challenges using publicly available data.

NASA Space Apps Cairo, one of IEEE YP Egypt’s flagship programs, was first established in 2015. The 2024 edition marked a significant milestone—the 10th anniversary of Space Apps Cairo, making it a special and memorable event.

Key Highlights:

- **Expanded IEEE Collaboration:** This year saw stronger engagement from IEEE, with contributions from IEEE Region 8, the IEEE Computer Society, and the IEEE Aerospace and Electronic Systems Society (AEES), enhancing the technical depth and impact of the event.
- **Distinguished Speakers & Experts:**
 - Prof. Mike Hinchy (IEEE Region 8 Director and CS Board of Governors Member).
 - Prof. Braham Himed (Vice-Chair of the AEES Technical Chapter).
- **Diverse Participation:** Participants from various disciplines collaborated to develop innovative solutions with the potential for global impact.

This year’s NASA Space Apps Cairo not only celebrated a decade of innovation but also strengthened its role as a leading hub for technology, collaboration, and problem-solving in Egypt and beyond.



Made In Egypt (MIE) 2024 – 17th Edition

Made In Egypt (MIE) is a national competition that empowers graduating engineering students by helping them transform their graduation projects into startups. The competition connects participants with business and technical resources, equipping them with the skills needed to create real-world impact and contribute to sustainable development. In 2024, MIE celebrated its 18th edition, expanding its focus on sustainability by introducing new tracks, including:

- Green Building
- Smart Agriculture
- Renewable Energy
- Green Energy

This year, the competition brought together engineering students from across Egypt, challenging them to innovate, create, and contribute to a better future. By fostering an entrepreneurial mindset, MIE 2024 played a pivotal role in shaping the next generation of engineers, innovators, and startup founders.



Mentoring Meet 2024

The Mentoring Meet 2024, organized by IEEE Young Professionals Egypt, provided a unique platform for students and young professionals to receive personalized guidance from experienced mentors across various fields.

Key Highlights:

- **One-on-One Mentorship:** This year's event featured a dedicated one-on-one mentorship format, ensuring each mentee received tailored advice and career insights.
- **Diverse Tracks & Experts:** Participants engaged in 12 specialized tracks, guided by 17 mentors with expertise spanning technology, business, and professional development.
- **Wide Participation:** The event brought together 160 mentees, fostering knowledge exchange, networking, and skill-building opportunities.

The 2024 edition of Mentoring Meet continued to strengthen the IEEE YP Egypt community, equipping young professionals with the skills and mentorship needed to excel in their careers.



Affinity Groups

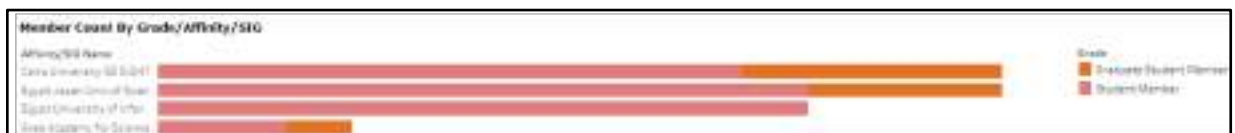
List of Affinity Groups (YP, LM, WiE, SIGHT, etc.), list of SB AGs, newly formed or dissolved AGs/SB AGs, if any since the last meeting reporting. List the activities intended to support affinity groups.

Young Professionals Egypt:

- Made in Egypt Program
- NASA Space Apps Cairo
- Volunteers Empowerment Program
- IEEE Mentoring meet Egypt
- STEP Event

SIGHT:

- We have **191** SIGHT memberships and **57%** of them are IEEE Student Members.



- We have one newly formed SIGHT Student Branch group in Egypt Japan University of Science & Technology (E-JUST).
- Currently, we have **4** SIGHT Student Branch groups and we are guiding **4** SIGHT SB groups to be established soon.
- During 2025, our plan is to organize:
 - 6 SIGHT awareness sessions (we delivered 2 awareness sessions during the last 3 months),
 - 2 SIGHT capacity building activities,
 - One international event in cooperation with other SIGHT group in R8,
 - 2 local events:
 - **SIGHT Day.** It is an event in order to increase the awareness about SDGs and recruiting SIGHT volunteers.

- **SIGHT Effect.** It is an event in order to gather all the SIGHT Egypt groups and celebrate the 8th anniversary of SIGHT in Egypt.
- We are planning to work on two SIGHT projects. We are planning to improve the old project “**Enta Mnawar**”.
- Follow this [link](#) to watch “**Enta Mnawar**” project video report. And, we are planning to apply for a new project funding).

Consultants Network (CN):

- IEEE Computer Society R8 AI Caravan
- ECC-AI 2025
- Expand and diversify the IEEE Egypt Consultants Network membership base through targeted recruitment efforts, leveraging digital channels, networking events, and referral programs
- Establish KPIs for membership growth, retention, and engagement, tracking metrics such as membership renewal rates, event attendance, and online community participation.
- 2025-2026 ExCom.

Chapters:

CASS Egypt Technical Chapter

- **NILES 2024 CASS Sponsored Conference**

The poster for NILES 2024, titled "The 8th Novel Intelligent and Learning Emerging Sciences Conference", is a hybrid event held from October 18-21, 2024, in Cairo, Egypt. It is sponsored by IEEE Region 8 and the CASS Egypt Technical Chapter. The conference features four tracks: Track 1: Electronics Engineering and Technology; Track 2: Intelligent Mathematics and Physical Engineering; Track 3: Communication Engineering and Technology; and Track 4: Computer Science and Engineering, Robotics, and Biomedical Engineering. The poster also includes a list of topics, a call for papers, and a registration fee table.

Registration Fee	Early Bird	Regular
IEEE Member - Full Registration	500€	600€
Non-IEEE Member - Full Registration	600€	700€
IEEE Member - Student Full Registration	200€	300€
Non-IEEE Member - Student Full Registration	300€	400€

- IEEE ICM 2024 CASS Egypt Chapter Technical Sponsor Doha, Qatar



ICM 2024
Marriott Marquis City Center, Doha – Qatar
December 14-17 2024
International Conference on
Microelectronics

ICM 2024
The International Conference on Microelectronics has already been held numerous times in different countries across the Middle East, Southern Europe, and Asia for the past 25 years. The 38th edition of the conference will take place in Doha, Qatar. ICM 2024 will include oral poster sessions and tutorials given by experts on state-of-the-art topics. The regular technical program will last for three days. In addition, tutorial sessions will be held on the first day of the conference. ICM 2024 is a highly technical conference that focuses on the latest developments in circuits and systems research. As such, the conference is primarily aimed at researchers, academics, engineers, and professionals in the field of circuits and systems. The conference, spanning over four days, will include peer-reviewed paper submissions, an accepted papers will be considered for inclusion in IEEE Xplore.

Topics:
 Circuits and Systems Digital signal and data processing AI IoT and Wireless communication systems Analog and RF circuit design techniques Nonlinear circuits VLSI for signal and image processing System-on-chip (SoC) Integrated antenna and front-end co-design IoT circuits and security Metaverse and Sensors Biomedical circuits and systems CAD tools and Design Simulation (process, device, circuit, logic, timing, hardware) Silicon optimization Parallel embedded systems Fastening formal verification CAD for FPGAs High-level synthesis tools Design for testability Micro/Nanoelectronics Device characterization and modelling Device physics and novel structures Process technology, CMOS, BiT, BiCMOS, GaAs Reliability and failure analysis Optoelectronics MEMS devices Packaging and surface mount technology

Paper Submission
 Authors are invited to submit papers in PDF using according to IEEE formatting guidelines. Paper template could be downloaded from the following website:
https://www.ieee.org/conferences_events/conferences/publishing/templates.html
 Electronic submission of papers should be done via EDAS: <https://edas.info/>

Questions regarding submission should be directed to: icm2024@ieee-icm.org
 Accepted and presented papers for authors who complete registration will be submitted for inclusion to IEEE Xplore.

Review Process
 The evaluation of submitted papers is based on the importance and usefulness of the research topic. Technical merits, novelty of the approach, soundness of results, and clarity of presentation are also considered as factors of the evaluation process. Each paper will be fully reviewed by a minimum of three specialized reviewers.

Important Dates:

Full Paper Submission	: September 28 th , 2024
Paper's Notification	: October 20 th , 2024
Camera Ready	: November 20 th , 2024
Submission of Special Sessions Proposals	: September 25 th , 2024
Submission of Tutorials Proposals	: September 25 th , 2024
Notification of Tutorials Proposals Acceptance	: September 30 th , 2024
Notification of Special Sessions Proposals Acceptance	: September 30 th , 2024

Conference Website: <https://www.ieee-icm.org/2024/index.html> **Contact:** icm2024@ieee-icm.org

- Workshop for Internet of Things with sustainable smart sensor systems (IOT-4S)



DAAD German Academic Exchange Service

GUC welcomes you for Workshop:

"Internet of Things with Sustainable Smart Sensor Systems (IoT-4S)"

Cooperation between GUC- Leuphana University-Funded by DAAD Ta'iz Partnership - Short-term Measures

	Day 1: Saturday 10-11-2024	Day 2: Sunday 1-12-2024	Day 3: Monday	Day 4: Tuesday 3-12-2024	Day 5: Wednesday 4-12-2024	
Welcome						
Keynote Session	18:00 – 19:00 Welcome presentation Prof. Mohamed Abdelghany/Prof. Ghada Bouattour "Cloud Cybersecurity" Dr. Magda Mostafa	"Transforming Healthcare: AI-Powered Portable Ultrasound device for Continuous Monitoring" Dr. Steven Ash "Sustainable electronics in automotive sector" PhD - Germany, Honoring FITZMEIER	Student Job Fair	"Sensors in Internet of Things" Dr. Youssef Elmagad	"Women in Engineering" Dr. Emma Azab IEEE Wis	
Coffee Break	10:00 – 10:30				"LoRa-Based Smart City Deployed in the GUC" Prof. Tahai El-Shabrawy	"IEEE Sensors Council's Journey and Future" Dr. Aida Elshaban
Session 2	10:30 – 11:30 "Securing the Cloud Best Practices Threats and Strategies" Prof. Dr. Ahmed Taha	"Building Sensor IoT Systems From Adaptive Compression to Scalable AI Deployment" Dr. Hossam Arer			"Organic and Flexible Electronics: concepts, applications" Prof. Dr. Mustafa Nawas	"Brand Building for Engineering Entrepreneurs" Mr. Ahmad Elmag
Session 3	11:30 – 12:30 "Smart Devices = Smarter Threats: The IoT Dilemma" Mr. Oussay Eher "Why AI for Security Products" Mr. Merv Saad	"AI & Microwave technology in Bio-medical applications" Dr. Omar Fahmy			"Organic and Flexible Electronics: challenges and opportunities" Prof. Dr. Mustafa Nawas	"Brand Building for Engineering Entrepreneurs" Mr. Ahmad Elmag
Lunch	12:30 – 13:30					
	13:30 – 14:30 "Network Security" Dr. Mizar El-Aasser "The Role of MFA in Modern Security" Mr. Ahmad Galal	"Formal Verification: concept, tools and applications" Dr. Nahla El-Azabi			"Smart Agriculture in the era of IoT" Prof. Ahmed Madian/ Dr. Lobna Said	"Brand Building for Engineering Entrepreneurs" Mr. Ahmad Elmag
Session 5	14:30 – 15:30 "Digital Forensics" Dr. Marwa Zennaro "Unlocking your Future! Guide to Cybersecurity Careers" Mr. Firas Goman	"Securing the Smart City: A Visual Perspective" Dr. Samir Ibrahim "IoT in Construction: BigData analytics - risk & prevention" Dr. Ahmed Elsh			"Wearable Devices based IoT for Healthcare" Dr. Ahmed Sultan	"Unlocking Agile Superpowers: Description, Characteristics, Collaborations, and Adaptability for Peak Performance" Ms. Christiana Lawanji
Coffee Break	15:30 – 16:00					
Panel (Round Table)	16:00 – 17:00 Panel discussion Panel chair: Prof. Dr. Mohammed Abdel-Maged Salem	Panel discussion Panel chair: Prof. Dr. Mohammed Abdel-Maged Salem			Panel discussion Panel chair: Prof. Dr. Mohammed Abdel-Maged Salem	Panel discussion Panel chair: Prof. Dr. Mohammed Abdel-Maged Salem

Chair of The Event: - Prof. Mohamed Abdelghany & Prof. Ghada Bouattour



Brief Description of the Forum:

the IoT-4S Workshop focused on IoT applications in agriculture, healthcare, wearables, sensors, and organic semiconductors, featuring engaging discussions and cutting-edge insights.





- **IEEE CAS Egypt Workshop**

The IEEE CAS Egypt Workshop was a full day program at El Sewedy University of Technology (SUT), where SUT is a newly established University, and our aim is to promote IEEE CASS to the undergraduate students with the development of IEEE CASS, Egypt CAS, and a series of technical talks related to biomedical AIs.



- **IEEE CASS talk in student branches officer meeting**

Prof. Ahmed Madian, IEEE Egypt Section Chair and IEEE CAS Chair, delivered an inspiring talk about IEEE CAS and the opportunities it offers.



Event 9: IEEE CASS Student competition

For the first time in Egypt, the IEEE CASS Student Design Competition invites undergraduate students and innovators with projects related to Circuits and Systems to compete on local, regional, and global levels!

Competition Phases:

1. Phase One (Local):

Submit your project to expert judges. Selected teams will receive FREE IEEE CASS MEMBERSHIP and qualify for Phase Two.

2. Phase Two (Regional):

Compete in Region 8 (Africa, Europe, and the Middle East). Teams that advance to Phase Three will receive a travel grant of \$1,200–\$1,700.

3. Phase Three (Global):

Compete at ISCAS 2025 in London for the grand prize of \$3,000 USD!

Key Dates:

- Registration Opens: December 16, 2024
- Deadline to Register: December 23, 2024
- Accepted Teams Announcement: December 25, 2024
- Competition Start: December 27, 2024

Important Links:

 Competition Guidelines: <https://drive.google.com/.../1eJsldqxnQuU36.../view...>

 Registration Form: <https://forms.gle/KijJjeopj64PBSVY9>

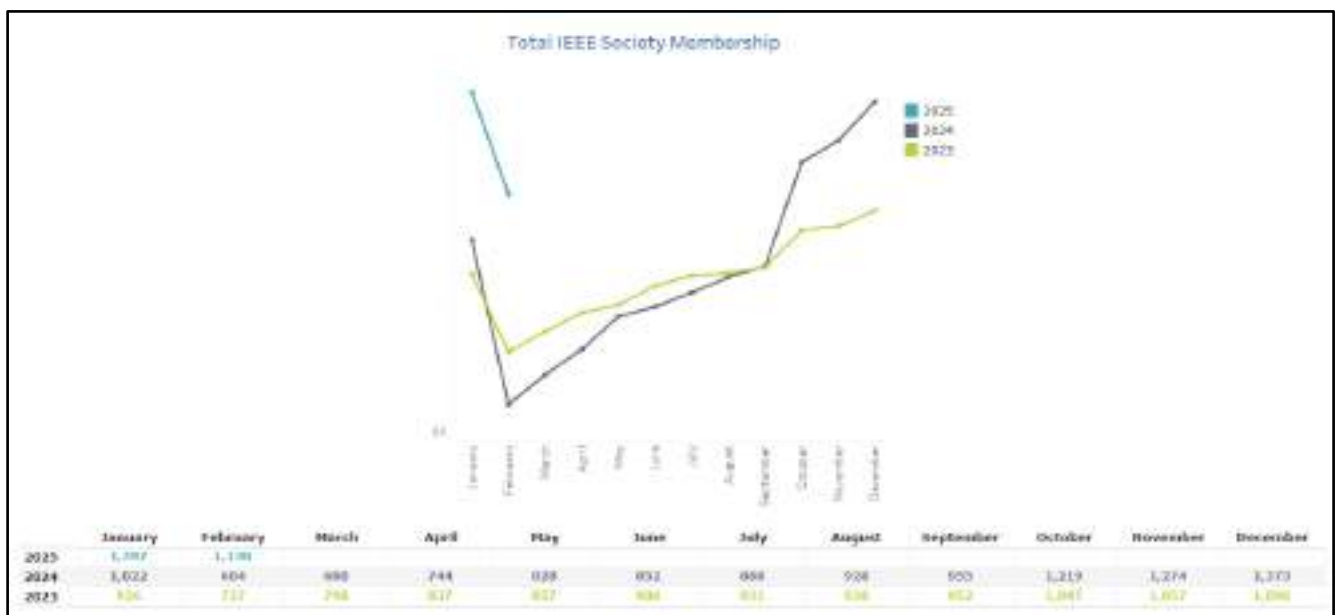
Don't miss the chance to showcase your innovative ideas, connect with industry experts, and compete globally!

 For inquiries, contact IEEE Nile University Student Branch: (ieeenu@nu.edu.eg).

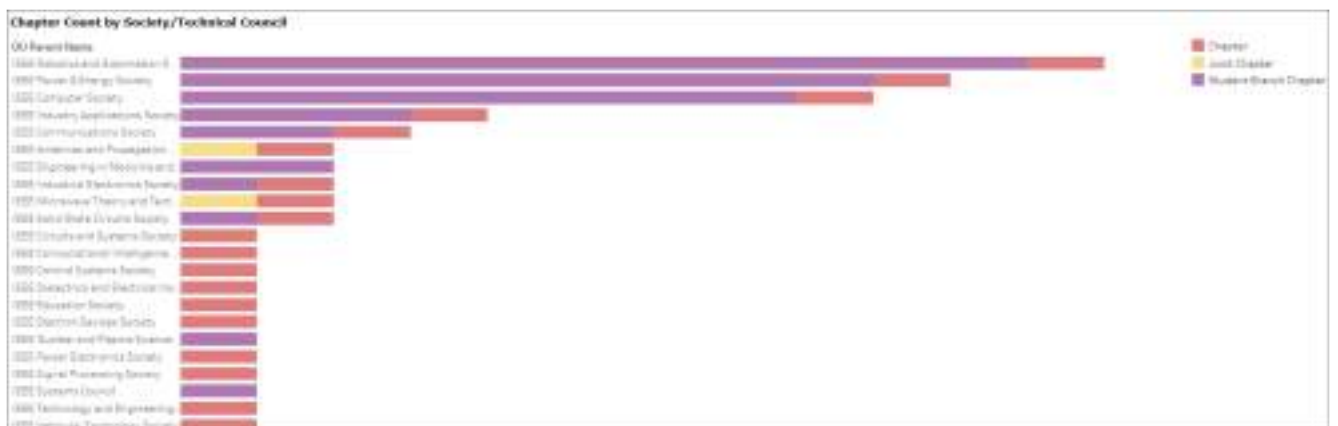


2025 Activity:

- 1- Workshop for IEEE members
- 2- DLP program lecture for CASS and non-CASS members in Egypt
- 3- IEEE technical sponsor for ICM 2026 and NILES 2026
- 4- CASIF in collaboration with different CASS chapters in Africa.
- 5- IEEE YPSAC CASS meeting
- 6- CASS Student Design Contest
- 7- Workshop IEEE CASS for culture Heritage preservation, Luxor Dec. 2025



- We achieved a great jump of **188%** increase in the IEEE societies’ memberships compared to the previous year.
- Currently, we have **19** active professional society chapters, **2** joint chapters, and **38** student branch chapters.



- We have established communication channels with the professional society chapters and the student branch chapters in order to help them to get funding from their societies and improve their performance.
- We are planning to organize a chapter officers training in cooperation with IEEE Egypt SAC.
- IEEE Egypt section will be hosting IEEE Power Africa 2025, so we are planning to organize societies’ challenges in the conference’s program between the participating professional society chapters and the student branch chapters.

Sensors Council Egypt Chapter

- **Inauguration event:** The chapter started its activities by its online inauguration event; where the global Sensors Council Chair was invited, Egypt Section Chair as well as Egypt Chapter Chair. The role of the Sensors Council globally as well as its objectives and the plan for its activities in Egypt were demonstrated.



- **Technical partner with IET-GUC:** The chapter participated as a technical partner at the Internet of Things with Sustainable Smart Sensor Systems (IoT-4S) workshop! It is a 5 days workshop organized by IET GUC in collaboration with Leuphana University of Lüneburg and funded by the DAAD German Academic Exchange Service Ta'ziz Partnership - Short-term Measures. It explored the transformative impact of IoT in a variety of fields, including: Medicine and Healthcare, Wearables Construction, Sensors and Electronics, The Attendees gained insights from industry leaders and academic experts, showcasing how IoT applications are driving innovation, improving efficiency, and addressing real-world challenges in these sectors.





- IEEE Sensors Summit 2025: The chapter held the 1st version of this summit; themed "IoT Connecting for Good: Innovations for a Sustainable Future". The summit brought together a distinguished group of Egyptian and international experts, including: IEEE Distinguished Lecturer, University professors and researchers, Industry leaders and Government representatives. More than 75 persons attended the summit. Attendees exchanged insights, shared global experiences, and discussed best practices across the IoT value chain, from enabling technologies and sensing innovations to deployment roadmaps and service offerings.
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- **Online Webinar “How do we understand, define & Categorize Sensors”:** The webinar focused on exploring the intricate world of sensors, guided by Prof. Stoyan's profound insights and extensive research. It delved into the mechanisms of understanding, defining, and categorizing sensors, offering valuable knowledge for professionals and enthusiasts alike.



All these activities contributed in increasing the number of Sensors Council members from 162 at the chapter inauguration to 195 members **with 17% increase in 4 months only**

Count by Region and Grade					
Region	Council	Grade	Grade Category	Grade	Total
88	Atina Council	IEEE 10000	IEEE 10000	Associate Member	2
				Student Member	14
				Life Member	2
				Member	43
				Senior Member	43
				Student Member	41
				Total	101
		Other Grade	Other Grade	Other Grade	3
				Total	1
				Total	104
				Total	162
				Total	162

Count by Region and Grade					
Region	Council	Service	Grade Category	Grade	Total
88	Atina Council	IEEE 10000	IEEE 10000	Associate Member	1
				Student Member	23
				Life Member	3
				Member	43
				Senior Member	44
				Student Member	44
				Total	158
				Total	159
				Total	195
				Total	195

Industry

- InnovateX: Engineering the future:** It is a groundbreaking initiative that harnesses the power of virtual learning to bring together experts from industry and aspiring engineers from across the globe. Through its series of 7 webinars, InnovateX covers diverse engineering fields, providing participants with a unique opportunity to explore emerging technologies, industry trends, and innovative solutions. This initiative is crucial for fostering knowledge exchange and breaking geographical barriers, allowing students and professionals to gain insights from leading industrial experts without the constraints of travel or location. It plays a significant role in bridging the gap between academia and industry, equipping attendees with a broader understanding of cutting-edge advancements and inspiring them to contribute to the future of engineering. It serves as a platform for participants to engage with thought leaders, ask questions, and broaden their perspectives, thereby encouraging innovation and collaboration. By inspiring and empowering the next generation of engineers, InnovateX truly embodies its mission of “Engineering the Future” and underscores the transformative impact of virtual education in shaping a better tomorrow. No. of attendees for these webinars was about 140 and the topics included were the following:
 - Mobility sensor IC Development at Bosch
 - Training the next generations of Chip designers
 - Smart Low Voltage switchgears
 - Volvo BEV market commercial vehicle applications
 - Revolutionizing Mobile Networks: Exploring the latest trends in digital transformation
 - Sequential decision-making: An introduction to reinforcement learning
 - Renewables for oil and gas: can production be cleaner?



- Techtours initiative:** This initiative was pivotal in bridging the gap between industry and academia, offering students a transformative learning experience. It was done in collaboration with SAC Egypt Chapter and with the financial support of the Egypt section. By immersing students in real-world environments, these visits provided invaluable exposure to cutting-edge technologies and practical applications of theoretical knowledge. Students gained deeper insights into industry operations, emerging trends, and the challenges professionals face in their respective fields. This hands-on experience not only enhanced their technical skills but also broadened their perspectives, inspiring innovative thinking and problem-solving abilities that are crucial for their future careers. The initiative started with one visit in the summer followed by 5 visits in its winter edition after the positive feedback received from the 1st one. The whole 6 visits were in different manufacturing fields and 3 different governorates spanning:

- Smart meters
- Cables
- Transformers
- Electric panels
- Factory automation in an oil factory
- The largest electric power plant in the world by Siemens.

The total no. of students attended these visits were around 100 students and the feedback received from all the visits were very positive.

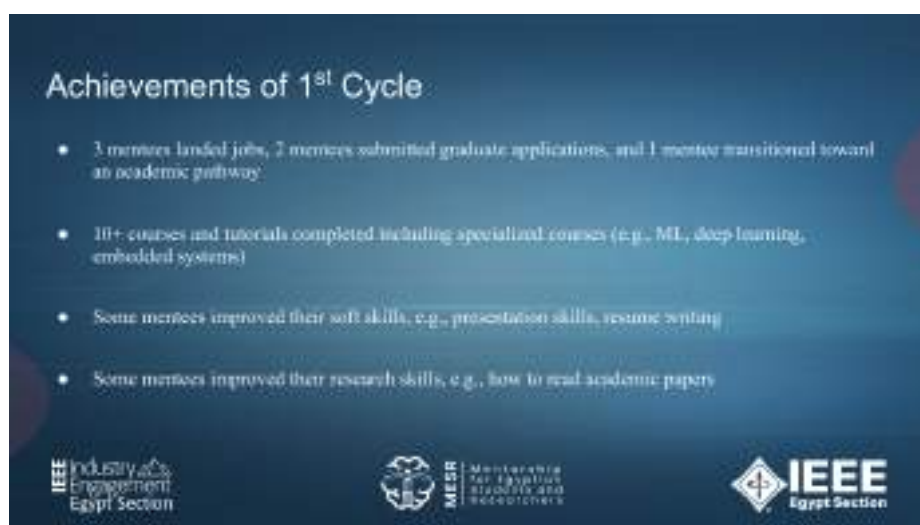






- **MESR (Mentorship for Students and Researchers) Program (round 1):** This program is a 4 months program and it is a transformative initiative aimed at fostering meaningful connections between seasoned experts and aspiring talents in academia and industry. This program provides students and researchers with access to invaluable guidance, enabling them to navigate their educational and professional journeys with confidence. Through personalized mentorship sessions, participants gain insights into advanced research methodologies, career development strategies, and practical problem-solving techniques, preparing them to tackle the challenges of their respective fields. By bridging the gap between experience and ambition, MESR empowers participants to unlock their full potential and make impactful contributions to their disciplines. The initiative also highlights the significance of mentorship in building resilient and adaptable future leaders, aligning with IEEE's mission to empower the next generation of engineers, scientists, and researchers. The 1st round had 16 mentors and 25 accepted mentees across 5 tracks
 - Electronics
 - Embedded systems
 - Data Science/ML
 - Wireless communication
 - Other

Based on the mentees reviews, average rating was 8.8 out of 10.





- Industry panel in R8 CS SYP 2024 Congress:** This congress is an exciting event designed to bring together students and young professionals from across Region 8 to foster collaboration, innovation, and professional growth. It offered a unique platform for participants to engage in technical workshops, networking opportunities, and cultural exchanges. By connecting bright minds and industry leaders, it aimed to inspire the next generation of engineers and technologists while promoting interdisciplinary learning and global collaboration. An important industry panel was held to explore the transformative role of emerging technologies in reshaping industries, where insightful ideas, expert perspectives, and a lively exchange of thoughts made it an unmissable session!



- **Technical partner at IEEE Sensors Summit 2025:** Bringing different industry partners as well as governmental partners in the 1st version of IEEE Sensors Council 2025 was one of the key success elements in this event where each one of them shared his point of view from his perspective and discussed it with the researchers attended the events.



Planned activities

Highlight some of the future activities and initiatives in your Section.

- **Young Professionals Egypt:**
 - **Made in Egypt Program:** Made In Egypt is a competition between their peers with their graduation projects The target is to bring the best out of them so they are able and ready to convert their graduation projects into their startups by connecting them with business approaches besides the technical ones. In addition, supporting them to spread their impact on human beings and share in making the world a better place all over Egypt.
 - **NASA Space Apps Cairo:** The **NASA International Space Apps Challenge (Space Apps)** is a global hackathon that spans a 48-hour period, taking place simultaneously in cities around the world. Led by NASA, this event is a collaborative effort supported by various governmental organizations and local partners. Over the course of two days, teams composed of technologists, scientists, designers, artists, educators, developers, entrepreneurs, and students come together to tackle some of the planet's most pressing challenges. Using publicly available data, participants design innovative solutions that can make a global impact.

- **Volunteers Empowerment Program:** is a training program created by young professionals to prepare a new era of experienced leaders & well-trained volunteers to lead the future of IEEE Egypt’s various activities. VEP is for IEEE volunteers both students and graduates.
 - **IEEE Mentoring meet Egypt:** is a specialized event that delivers high-impact mentorship experiences within a short timeframe. By linking experienced industry leaders with students, early-career professionals, and young IEEE members, the event fosters an environment that promotes career growth, skill enhancement, and global networking. Participants will benefit from one-on-one and small group mentorship sessions, ensuring personalized interactions that address their unique needs and aspirations.
 - **Collaboration with ITC conference 2025:** The YP Egypt is a technical sponsor in ITC 2025 which is organized by the Egyptian Military Academy (EMA) in Cairo, Egypt. It will bring together the expertise of international researchers and leading communications research labs. The conference will be held at the Egyptian Military Academy in the New Capital, Cairo, Egypt. from 28–31 July 2025.
 - **Collaboration with ICEENG-15:** The 15th INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING (ICEENG-14) offers an incredible opportunity to present your research and connect with renowned experts and faculty members from prestigious North American and European universities. That’s right, join our dedicated Young Professionals Workshop and Poster Session and gain valuable exposure and potential scholarship opportunities!
 - **STEP 2025:** STEP refers to Student Transition and Elevation Partnership. So, IEEE STEP was developed to provide a dynamic program for facilitating the transition from Student member to young professional by introducing the opportunities and benefits of IEEE membership during the onset of a STEM career. The event is planned to be hosted in person and with the theme: “Transition to a Sustainable Future”. The event’s main objective is to prepare the students for the professional field and encourage them to join as young professional members.
- Students Activities Committee Egypt:
 - **IEEE Officers Meetings (Q2, Q3, Q4):** IEEE SAC Egypt will convene three Officers Meetings throughout 2025, supplementing the inaugural session at the beginning of the year. These gatherings will serve as pivotal forums for intellectual exchange, leadership refinement, and high-level strategic discourse, uniting student branch officers from across Egypt to cultivate a culture of innovation and excellence. Each meeting will be meticulously structured around a distinct thematic focus, ensuring that student branch officers acquire progressive insights and advanced competencies essential for exemplary leadership. Through these targeted sessions, IEEE SAC Egypt aims to fortify knowledge transfer, foster cross-chapter collaboration, and empower officers to drive impactful initiatives aligned with IEEE’s global vision.
 - **IEEE Technical Chapters & Affinity Groups Annual Meeting:** In alignment with IEEE SAC Egypt’s overarching vision and in strategic collaboration with the IEEE Egypt Section’s technical chapter coordinators, the IEEE Technical Chapters Annual Meeting stands as a keystone initiative designed to fortify the collective influence of technical chapters within the section. This high-level convocation is dedicated to augmenting their impact, proactively addressing operational and strategic challenges, and fostering an ecosystem of continuous innovation and technical excellence. The meeting will serve as an intellectual nexus, facilitating discourse on best practices, resource optimization, and pioneering advancements in engineering and technology. By equipping chapters with critical insights, essential tools, and comprehensive support frameworks, IEEE SAC Egypt aims to enhance their operational efficiency, catalyze cross-chapter synergies, and reinforce their pivotal role in advancing IEEE’s global mission.
 - **IEEE Day Egypt 2025:** IEEE Day Egypt 2025 is poised to transcend the benchmarks set by its predecessors, amplifying its influence through a meticulously curated agenda that fosters interdisciplinary collaboration, professional networking, and strategic volunteer engagement. This edition will integrate avant-garde technological discourse, dynamic mentorship opportunities, and high-impact sessions designed to reinforce IEEE’s role as an incubator of innovation and professional excellence. By harnessing the collective expertise of IEEE Student Branches, Technical Chapters, and Affinity Groups, IEEE Day Egypt 2025 will serve as an unparalleled nexus for knowledge exchange, leadership cultivation, and the empowerment of the next generation of engineering pioneers.
 - **IEEE Egyptian Student Paper Contest (ESPC) 2025:** IEEE ESPC 2025 will continue to fortify its legacy as a premier platform for advancing technical research and fostering scientific writing excellence among undergraduate students. With an anticipated surge in high-caliber submissions, this edition will introduce a refined mentorship framework, equipping participants with domain-specific guidance and rigorous peer-review mechanisms.
 - **IEEE PES 2025:** IEEE PES 2025 will drive forward critical discussions on power and energy advancements, spotlighting sustainable energy solutions, smart grid evolution, and emerging technological breakthroughs in the field. The event will unite industry leaders, researchers, and practitioners for expert-

led panels, technical deep dives, and high-impact networking sessions, fostering collaboration between academia and the power sector.

- Industry Committee Egypt:
 - **Career Fair:** The industry committee is planning to participate in a career fair to be held in the British University in Egypt, where a booth will be allocated. In this full day, lots of activities will be executed in order to strengthen the connections with the different companies participating in this fair. Advantage of IEEE in general will be demonstrated with a focus on the industry committee. A talk from an industry partner and IEEE member will be delivered as well to advise the students how to move to their professional life.
 - **MESR program (Mentorship for Students and Researchers) round 2 & 3:** This 4 months program continues in its 2nd & 3rd rounds after its successful implementation and execution in round 1. 2nd round will be dedicated to the fresh graduates, where mentoring advice and tips are offered from different mentors in different fields in order for the mentees to be guided to the best practices to pursue their careers.
 - **Collaboration with IEEE Power Africa 2025:** the industry committee is participating in the organization and preparation of this flagship conference in order to attract different industry partners in the different talks and speeches during the conference as well as participating in the exhibition that will be held as well bridging the gap between academia and industry
 - **InnovateX: Engineering the future:** The 2nd round of this program will be held after its successful execution in its 1st round, where 5 webinars are planning to be held in different fields featuring top talented engineers in these different industries. During these webinars, the available work/internship opportunities will be shared for the audience.
 - **Industry engagement event:** In this short day, and in collaboration with the Sensors Council chapter, sensors-related industry professionals are going to be invited in a short day to give speeches about recent sensor topics in different industry fields.

- Sensors Council Egypt Chapter
 - **Best papers in Sensors Council:** This is a planned webinar where the best paper awarded authors from different sensors council's conferences are going to be invited to a webinar where they will demonstrate their work in their papers. This is to highlight the state-of-art directions in the sensor field for interested people.
 - **Seasonal schools:** An initiative by the global Sensors Council to encourage teaching sensor topics to the seasonal schools (winter/summer) in 2 - 5 days and it is planned to participate in this program in the summer this year. It is a form of invited lectures focusing on a selected topic of IEEE Sensors Council's interest (e.g., sensor technologies, sensor networks and systems, etc.). This is to increase the awareness and ties with this very important field and encourage students to get deeply involved in it.
 - **Industry engagement event:** In this short day, and in collaboration with the Industry engagement committee, no. of Invited speakers from industry are going to be invited to give talks about their specialities in a specific interested topic related to the sensors community in order to highlight the importance of such direction.

How Region 8 can be of help to your Section, members, and activities

List any challenges you Section is facing and what support is required from the Region 8. Please, also, give us your suggestions for agenda items that you want to be discussed during the R8 Committee meeting.

- Membership fees in the shadow of devaluation (option of promo code with discount)