

Algeria Section

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Section Vitality

The last section election was in December 2023, the next election will be in December 2025. Up to date the practice of having the Vice-Chair becoming the next Section Chair is not applied.

The meetings, which were held during the period from Septmebr2023 to February 2024 are listed as follows:

1. First meeting of the new elected officer was held onJanuary 2024. This meeting was dedicated to prepare the next meeting of ExCom Algeria Section and also the proposal of new designed officer for different position at the Section board of the officers.
2. First Meeting of the ExCom which was held on 27th January 2024. This meeting was a start point of the new office of the IEEE Algeria Section. The past office members was invited as well as some colleagues from the office of R8, such as the R8 Director and the R8 Sac Chair.
3. Technical Activity IEEE Algeria Section 2023- Workshop of Section and Chapters: This technical workshop serves as a supplementary event alongside the IEEE 2nd International Conference on Electronics, Energy, and Measurement (IC2EM'2023) at the University of Medea on November 28-29, 2023. The conference, was technically and financially sponsored by the IEEE Algeria Section, the SSCS Chapter, PELS Chapter, EDS Chapter, PES Chapter, and VTS Chapter. this workshop was coordinated by the IEEE Algeria Section and the participating Chapters. The primary objective of this gathering is to familiarize conference attendees, espically PhD students with IEEE, presenting opportunities for involvement and the key activities through which they can enhance their knowledge and advance their careers.
4. IEEE Algeria Section ExCom Meeting (2-2023): This Meeting was organized to discuss the main challenges faced during the year 2023. The meeting was opened for discussion with IEEE Members and non-members participating at the IEEE 2nd the international conference on Electronics, Energy and Measurement (IC2EM'2023) organized at the University of Medea. It was a great opportunity for the chair to listen deeply to the challenges of the members and other attendee who express their willingness to join IEEE Algeria Section. Many administrative points have been discussed where the IEEE Algeria Section tries to respond and clarifies every point. At the same time the present Chair chapters have presented their main challenges for the past year and their vision toward the next year.
5. Technical Activity IEEE Algeria Section 2023- Workshop on the main goals of IEEE Algeria Section: This workshop, held as a parallel event during the inaugural International Conference on Electrical Engineering & Renewable Energies Systems (ICEERES'23), receives technical support from the IEEE Algeria Section. Conducted at the University of Bechar from November 21 to 23, its primary focus was engaging undergraduate and graduate students, encouraging their participation in IEEE Algeria Section activities. Facilitated by the IEEE Algeria Section Chair, the workshop aimed to pave the way for the establishment of a local student branch by early 2024, offering a valuable opportunity for community members to initiate this endeavor.
6. Technical Activity IEEE Algeria Section 2023- How to organize and IEEE International conference: This gathering serves as a supplementary session aligned with the 2023 International Conference on Electrical Engineering and Advanced Technology (ICEEAT), held from November 5-7 in Batna. It coincides with the IEEE-Day celebration week and is specifically focused on exploring approaches for organizing an international conference with technical sponsorship from IEEE OU.

The activities carried out to retain and recruit members:

1. Encouraging the educational and technical activities where many webinars have been organized;
2. Encouraging the Student branches of organizing activities, as we are convinced that the future of the section will be within the hands of young people and students, who will be the real power of the section. Indeed, a new student branch was approved recently by the end of 2023 at the University of Msila.
3. Participations at the conferences, which are technical sponsored by the section. The main aim of these participations is to allow presenting the section and its main objectives and goals to a large community. Indeed, the IEEE Algeria Section was a technical sponsor and a financial sponsor in many international conferences. For all of these conference the IEEE Algeria section participated with at least one officer's representative and student branch representative where the students organized many activities and awareness workshops to attract more students.
4. Participation to Humanitarian activities where some activities related helping people in needs and visiting some remote places to help the people who are leaving in that area. Indeed, based on these activities it was proposed to the section to organize special visits to these remote places to help people using renewables energy facilities.
5. Organization of workshops related to specific topics, especially within some universities in the country;
6. Organization of schools and special lectures of high quality, especially for master students and PhD students.
7. Scheduling of visiting led by the members of the ExCom within the whole universities and the colleges of the countries to introduce the section and its main objective and goals.

Students

The list of the active Student Branches in the Section are:

1. Student Branch of Boumerdes (University of Boumerdes (STB16261))

The main activity organized by this ST:

- Activity 1:
Title: Nexus Tech Competition
Date: November 27, 2023
Description: The Nexus Tech Competition is a week-long event designed to ignite participants' passion for technology. It's divided into two main categories: Internet of Things (IoT) and PCB Design. In the IoT category, participants might work on innovative solutions using IoT technology. In the PCB Design category, participants might design efficient and effective PCB layouts for various electronic devices. This event provides a platform for tech enthusiasts to showcase their skills, learn new ones, and network with industry professionals.
- Activity 2 :
Title: Opening Day
Date: November 28, 2023
Description: Opening Day is an annual event that celebrates the culmination of a year's worth of hard work, dedication, and learning. It's when students present their projects, demonstrating how they've applied the theoretical knowledge they've learned. This event showcases the transformation of academic concepts into practical solutions. It also fosters an environment of continuous learning by providing opportunities for feedback and improvement.
- Activity 3 :
Title: IEEEEDUINO BootCamp 3rd Edition
Date: December 02, 2023
Description: The IEEEEDUINO BootCamp is a beginner-friendly workshop that introduces participants to Arduino, a platform for creating digital devices and interactive objects. The session covers the basics of Arduino and coding, equipping participants with the knowledge to start their own Arduino projects.
- Activity 4 :
Title: Weekly-Wired-Wisdom
Date: Starting December 24, 2023, every Saturday
Description: Weekly Wired Wisdom: Navigating the Electrical Odyssey" is designed to be an enlightening and inspiring resource. It aims to unravel the fascinating journey of electricity, from its discovery to its modern-day applications in devices that shape our world. This series will certainly captivate those interested in understanding the profound impact of electricity on our lives. It's a journey through time, exploring the past, present, and future of electronics. Every week, it brings to light the hidden stories, breakthroughs, and genius minds that have shaped our electrifying world.
- Activity 5 :
Title: Codius Bootcamp
Description: The Codius Bootcamp is an extensive series of software workshops designed to take your coding journey to new heights. The bootcamp is divided into the following workshops:
 - First Workshop : Processing IDE
Date: January 21 and 22, 2023
Description: The Processing IDE Workshop is a beginner-friendly program that uses Processing, a JAVA-based tool, to introduce dynamic visual art creation. It covers Object-Oriented Programming, image processing, and software-hardware interaction, equipping participants with the skills to create everything from animated videos to interactive games. No prior knowledge is required, making it an exciting opportunity for anyone interested in the intersection of technology and art.
 - Second Workshop : Quantum Computing
Date: January 27 , 2023
Description: Quantum Computing is a rapidly emerging technology that leverages the principles of quantum mechanics to solve complex problems that are beyond the reach of classical computers. At the heart of quantum computing is the quantum bit, or "qubit", which unlike a classical bit that can be either 0 or 1, a qubit can exist in a superposition of states. This allows quantum computers to process a vast number of possibilities simultaneously.
 - Third Workshop : Latex Training
Date: February 10, 2023
Description: LaTeX training starts with understanding LaTeX basics and progresses to advanced topics like working with LaTeX documents. It covers logical structuring of documents, adding images, creating tables, writing mathematical expressions, and more. The training also includes

lessons on font adjustments, bibliography management, and error management. By the end, participants should be able to create professional documents using LaTeX.

➤ Fourth Workshop : Git and GitHub Workshop

Date: February 13, 2023

Description: Git is a version control system for tracking changes in code. GitHub is an online platform that hosts Git repositories, facilitating collaboration and project management in software development.

• Activity 6 :

Title: Automation Bootcamp

Date: January 24 and 25, 2023

Description: The Automation Bootcamp is a two-day intensive learning experience that delves into the world of automation. Participants will explore Programmable Logic Controllers (PLC), control systems, actuators, sensors, and the IEC61850 standard. The bootcamp includes hands-on experiences and a project using Siemens materials. It's suitable for both professionals and newcomers in the automation field. The bootcamp promises 12 hours of learning over two action-packed days.

• Activity 7 :

Title: Power Electronics Converters Using Simulink

Date: February 17, 2023

Description: The "Power Electronics Converters Using Simulink" training is an educational program that provides a deep dive into the world of power electronics converters. It covers everything from the basics to advanced converter topologies and control algorithms. Participants will learn how to use Simulink, a widely-used simulation tool, to model and simulate various power electronics circuits and control strategies. The training starts with an introduction to power electronics converters and Simulink, then moves on to modeling basic components and advanced converter topologies.

• Activity 8 :

Title: Benefits of IEEE membership conference

Date: February 15, 2023

Description: IEEE membership provides a wealth of benefits, especially for those who attend conferences. It offers access to a wide range of technical publications, opportunities for professional and educational development, and networking platforms. Members also enjoy discounts on conference registration fees and access to a vast digital library. These benefits can significantly enhance one's professional journey, providing resources to acquire new skills, and opportunities to advance in their career. It's a great platform for anyone in the field of technology and engineering.

• Activity 9 :

Title: Public Speaking Workshop

Date: February 19 and 22 , 2023

Description: Public speaking is the art of delivering a speech or presentation to a live audience with the purpose of informing, persuading, or entertaining. It requires the ability to craft compelling content, use effective body language, and manage stage fright. Successful public speakers can captivate their audience, command attention, and communicate their ideas clearly and convincingly. They practice diligently, receive feedback, and continually hone their skills. Despite the common fear associated with public speaking, with the right techniques and practice, anyone can transform from a nervous speaker to a confident orator.

• Activity 10:

Title: The National Meeting for Scientific Clubs on Sustainable Energy

Date: February 20 ,21 and 22 , 2023

Description: At this event, we might be expected to represent our club and present our project related to sustainable energy. This could involve explaining the concept, methodology, results, and potential impact of our project. It's also a great opportunity for us to network with other clubs and professionals in the field, learn from their projects, and get inspired by their work.

2. Student Branch of Ecole Nationale Polytechnique.

- IEEEExtreme 17.0 Organization and Participation: From September 1st to October 28th
- Annual Members/Volunteers Recruitment: From October 31st to November 23rd
- Interviews Start: December 6th
- December 16th First General Assembly: December 21st
- Mentoring Sessions: From December 24th to January 31st
- Graphic Design and Video Editing Trainings (5 Sessions)
- Finance and Public Relations Trainings (4 Sessions)
- Community Management and Marketing Trainings (3 Sessions)

- AssemblIEEE (Second General Assembly - in-person): February 17th
3. Student Branch of Djelfa University.
- Volunteering at International conference: In order to open up the Algeria section to its external environment, members of the IEEE student branch, and IEEE student chapter participated as volunteers in the SGRE'24 conference that was held in Doha from 08 to 10 January, where the members introduced the Algeria section as well as the IEEE organization.
 - First SB's Executive Committee Meeting This was the first official meeting for the newly elected executive board. During this meeting we got to introduce each other, discuss the upcoming events and potential collaborations and our future goals for this new mandate. This meeting was held on Google Meet and was attended by all the Excom officers and our student branch's former Chairman.
 - A Collaborative effort between the **IEEE Student Branch of Djelfa** and the **IEEE Student branch of M'sila**, we'll explore advanced strategies in IT Security Technology. Dive deeper into cybersecurity intricacies, from threat intelligence to hands-on exercises.

The newly formed Student Branch:

1. Student Branch of Msila University.

Affinity Groups

Algeria Section have currently two Affinity Groups:

1. Algeria section Affinity Group, YP.
2. SIGHT198 - Algeria Section SIGHT
3. LGR80120ST - Algeria Section SIGHT Group

Chapters

List of Chapters in Algeria Section:

1. Algeria Chapter EMC27
2. Algeria Chapter PE31
3. Algeria chapter GRS29
4. Algeria Chapter PEL35
5. Algeria Section Chapter,SSC37
6. Algeria Section Chapter,VT06
7. Algeria Section Chapter,SEN39
8. Algeria Section Chapter,ED15
9. Algeria Section Chapter,SEN39

List of joint Chapters in Algeria Section:

1. Algeria Joint Chapter IE13/IA34

List of Chapters in Algeria Section newly formed:

1. CH08519 - Algeria Section Chapter,PHO36

The list of the main activities which were held during the period from September 2023 to February 2024:

1. Organization of an awareness day about IEEE Algeria Section during the 2023 International Conference on Decision Aid Sciences and Applications (DASA), held on 16-17 September, in Annaba, Algeria
2. Organization of a workshop as side event to the 2023 International Conference on Networking and Advanced Systems (ICNAS), held on 21-23 October, 2023 in Algiers, Algeria.
3. Organization of IEEE Algeria Section Students activities at the 2023 5th International Conference on Pattern Analysis and Intelligent Systems (PAIS), held 25-26 Oct-2023, in Sétif, Algeria
4. Organization of a workshop as side event to the 2nd International Conferences on Electronics, Energy, and Measurements which was held on 28-30 at Medea University, Algeria.
5. Organization of an awareness day about IEEE Algeria Section during the 2023 International Conference on Electrical engineering and Advanced Technology, held on 5-7 November, in Batna, Algeria

Industry

The Algeria Section till now has started to have new initiatives for networking with industries. Therefore, one among the main objective to be achieved by the end of this year to build a strong network within the whole country with many industry partners. This networking will allow the have many internship and practicum facilities for the members of the section, especially master and PhD students.

Activities since the last report

- The primary challenge facing our section is the lack of significant activities in certain chapters. Unfortunately, one joint chapter had to be dissolved due to insufficient membership. Despite our efforts to attract new members and garner support, we have fallen short of our target. On a positive note, there is a highly active chapter that has successfully implemented numerous activities within the section.
- Financial support for the section remains a concern, significantly impacting the quality of our activities. Given Algeria's vast size, covering the region adequately requires substantial funding. It is crucial to address this issue to ensure the success of our initiatives.
- It is noteworthy that student membership in the Algeria Section is on the rise. We anticipate the formation of additional student branches before the year's end, along with the establishment of at least new chapters. This positive trend indicates potential growth and engagement within the section.

Planned activities

The main future activities and initiatives in Algeria Section for the coming period are as follows:

- Foster active engagement of Student Branches in attracting new members through innovative activities
- Promote the formation of student branches within chapters.
- Encourage existing members to establish new chapters within their respective majors, with a focus on member recruitment.
- Initiate new projects leveraging existing opportunities, such as SIGHT and EPICs.
- Advocate for student branch participation in IEEE Smart Village (ISV) offerings.
- Technical participation in conferences held in Algeria.
- Financial support for conferences organized within Algeria.
- Coordinate Master and PhD student schools during various breaks throughout the year.
- Strengthen visibility of IEEE Section through increased outreach and publication of its roles and advantages, particularly in universities and colleges.
- Prioritize humanitarian activities, especially in underserved and isolated regions.
- Cultivate robust collaborations and relationships within the sections and chapters of R8.
- Play a pivotal role in Algerian society by leveraging technology for positive impact

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

The role of R8 in enhancing the quality of activities in Algeria Section is important. We can summarize the important among them in the following points:

- Facilitating the office section's alignment with their primary responsibilities.
- Incorporating the Algeria Section seamlessly into the core operations of R8.
- Ensuring the participation of Algeria Section members in various committees across R8.
- Supporting the Algeria Section in fostering extensive collaborations with other sections and chapters within R8.
- Ensure that the Algeria Section stays informed about the latest developments and activities across the entire R8.

Photos from the First Meeting of the ExCom IEEE Algeria Section which was held on 27th January 2024

