IEEE Algeria section
Short review of the section’s Actions and activities,
Period 2016-2021
January, 6th, 2021
By: Pr A. MEKHALDI, Dr FZ CHELALI, Pr S. DRID and Dr N. CHAIB
Summary

1. Brief introduction (Algeria Sub section vs Algeria Section, Africa Council);
2. Membership development;
3. Chapters / Joint Chapters/ Student Branch;
4. Review of the section’s Actions and activities (Achievements (Online meeting, IEEE Sight Group, etc))
5. Conferences technically co sponsored by Algeria section and IEEE
6. Recommendations
The Algeria IEEE section was officially created in December 2015.

**Region 8 Vision**
Region 8 is an effectively organized, dynamic and influential entity, recognized as a leading and esteemed part of a truly transnational IEEE, with IEEE benefits equally available to all members.


**IEEE web site:**
[https://www.ieee.org/](https://www.ieee.org/)
The project of the IEEE Algeria subsection was launched for the first time on 25 June 2011, then it was approved in the MGA Board at its 19 November 2011 meeting.

The Algeria IEEE section was officially created in December 2015

Sub section: 2012-2015

Section: since January 2016

The IEEE Algeria Subsection was approved in the MGA Board during its 19 November 2011 meeting, with a petition of 59 IEEE qualified signatures.

- The first GM was at Mentouri university - Constantine on 27 May 2012.
- **Prof. Abdelmalek KHEZZAR** presented a summary of IEEE Sub section and its objectives (about 110 members joined the sub section),

**From 2012-2014**
- Chair:*Prof. Fateh Krim*
- Vice Chair:*Prof. A. Tilmatine*
- Secretary:*Dr. M. Azzouzi*
- Treasurer:*Dr. M. Challal*

**From January 2014-December 2015**
- Chair:*Prof. A. Tilmatine*
- Vice Chair:*Prof. A. Khezzar*
- Secretary:*Dr. M.Azzouzi*
- Treasurer:*Pr. S. Drid*

1. Highlights (IEEE Algeria subsection vs Section).

- The IEEE Algeria Subsection has gained 219 active members in 2015. Petition of the elevation to a section statute has been submitted to the MGA board of R8 and our Sub section has been successfully elevated to IEEE Algeria section in 2015.
- New Student Branch Chapter has been approved at the university of Boumerdes.
- A General Assembly of IEEE Algeria Section Members was held on 27, February 2016, Algiers at the National Ploytechnic School ENP.
  - Chair: Prof. Amar Tilmatine
  - Vice Chair: Prof. Abdelouahab Mekhaldi
  - Secretary: Dr. Fatma zohra Chelali
  - Treasurer: Dr. Noureddine Chaib
The Algeria IEEE Section has also participated to form the IEEE Africa Council approved by IEEE Region 8 and the Member and Geographic Activities Board (Tunis, June 2018). This was preceded by the elaboration of the IEEE Africa Council Bylaws.

### African Regions (African Union classification)

<table>
<thead>
<tr>
<th>Regions</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Algeria, Egypt, Libya, Tunisia and Morocco</td>
</tr>
<tr>
<td>West</td>
<td>Benin, Burkina Faso, Côte d’Ivoire, Cape Verde, Gambia, Ghana, Guinea, Guinea- Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone and Togo</td>
</tr>
<tr>
<td>Central</td>
<td>Burundi, Cameroon, Central African Republic, Chad, Congo, Congo (DRC), Equatorial Guinea, Gabon and São Tomé and Príncipe</td>
</tr>
<tr>
<td>East</td>
<td>Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Madagascar, Mauritius, Rwanda, Seychelles, Somalia, Sudan, South Sudan, Uganda and Tanzania</td>
</tr>
<tr>
<td>South</td>
<td>Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, eSwatini, Zambia and Zimbabwe</td>
</tr>
</tbody>
</table>
1. IEEE Africa Council / Algeria IEEE Section

MINUTES OF 1ST IEEE AFRICA COUNCIL MEETING HELD ON 29 JUNE 2018 AT RAMADA PLAZA HOTEL, TUNIS, TUNISIA

Participation of IEEE Algeria section by Prof A. MEKHALDI at Tunis on June, 29th, 2018
The highlights of IEEE President’s presentation on IEEE strategy for Africa were:

• That IEEE can best help African countries build engineering capacity by focusing on three overarching goals:
  
  ➢ Goal 1: Support Engineering Education and Workforce Development.
  
  ➢ Goal 2: Build a sustainable community of IEEE members and volunteers.
  
  ➢ Goal 3: Support Government policy development and increase opportunities for IEEE to serve as a resource for engineering capacity development [1].

[1] MINUTES OF 1ST IEEE AFRICA COUNCIL MEETING HELD ON 29 JUNE 2018 AT RAMADA PLAZA HOTEL, TUNIS, TUNISIA
• Algeria Section prepared in October 2018 a meeting in partnership with the Algerian Association of Electronic and Electrical engineering to promote relationship with industrial researchers.

**List of existing Chapters**

- Joint Chapter: IEEE Industry Application/Industrial Electronics.
- Power and Energy Chapter.
- IEEE Nuclear and Plasma Sciences / Dielectrics and Electrical Insulation Joint Chapter.
- Magnetics & Electromagnetic Compatibility Chapter

[1] MINUTES OF 1ST IEEE AFRICA COUNCIL MEETING HELD ON 29 JUNE 2018 AT RAMADA PLAZA HOTEL, TUNIS, TUNISIA
Two Student Branch (Constantine and Boumerdes)

<table>
<thead>
<tr>
<th>Organizational Unit Name</th>
<th>Position Description</th>
<th>Position Start Date</th>
<th>First Name</th>
<th>Last Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mentouri University Constantine</td>
<td>Chair</td>
<td></td>
<td>Abdlfettah</td>
<td>BOUSSAID</td>
</tr>
<tr>
<td></td>
<td>Counselor</td>
<td>6/18/2012</td>
<td>Abdelmalek</td>
<td>Khezzar</td>
</tr>
<tr>
<td>University of Boumerdes</td>
<td>Chair</td>
<td>1/9/2015</td>
<td>Abderraouf</td>
<td>ESSAHELI</td>
</tr>
<tr>
<td></td>
<td>Counselor</td>
<td>8/28/2014</td>
<td>Mouloud</td>
<td>Challal</td>
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</table>

IEEE web site: https://vtools.ieee.org/
## 1. Algeria IEEE Section

### Current Affinity Group Chairs since 2017

<table>
<thead>
<tr>
<th>Organizational Unit Name</th>
<th>Position Description</th>
<th>Position Start Date</th>
<th>Position End Date</th>
<th>First Name</th>
<th>Last Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria Section Affinity Group, YP</td>
<td>Affinity Group Chair</td>
<td>10/04/2017</td>
<td></td>
<td>Hicham</td>
<td>Berkouk</td>
</tr>
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</table>

**IEEE web site:**  
https://vtools.ieee.org/
## 2. Section vitality
### 2.1 Vitality for the year 2016

<table>
<thead>
<tr>
<th>Section Name</th>
<th>IEEE Current Grade Description</th>
<th>Count of Members*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria Section</td>
<td>Associate Member</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Graduate Student Member</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Member</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>Senior Member</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Student Member</td>
<td>12</td>
</tr>
<tr>
<td>Algeria Section Total</td>
<td></td>
<td>122</td>
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</table>

Chair: Pr. A. Tilmatine
Vice chair: Pr. A. Mekhaldi
Secretary: Dr. FZ Chelali
Treasurer: Dr. N. Chaib

IEEE web site: https://vtools.ieee.org/
### Volunteer position 2020-2021

<table>
<thead>
<tr>
<th>Position</th>
<th>Last Name</th>
<th>First Name</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Mekhaldi</td>
<td>Abdelouahab</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Conference Coordinator</td>
<td>Challal</td>
<td>Mouloud</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Editor-in-Chief</td>
<td>Tounsi</td>
<td>MohamedLamine</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Industry Relations Coordinator</td>
<td>Boubakeur</td>
<td>Ahmed</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Membership Development</td>
<td>Krim</td>
<td>Fateh</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Nominations</td>
<td>Chentir</td>
<td>Amina</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Secretary</td>
<td>Chaib</td>
<td>Noureddine</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Student Representative</td>
<td>Reguig</td>
<td>Abdeldjalil</td>
<td>Member</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Drid</td>
<td>Said</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Vice Chair</td>
<td>CHELALI</td>
<td>Fatma zohra</td>
<td>Senior Member</td>
</tr>
<tr>
<td>Webmaster</td>
<td>YAHIAOUI</td>
<td>Said</td>
<td>Member</td>
</tr>
</tbody>
</table>

Prof M. Tounsi is the actual Webmaster

**IEEE web site:** [https://vtools.ieee.org/](https://vtools.ieee.org/)
# 2. Section vitality

## Algeria section membership 2020

### IEEE OU Analytics

#### Members and Affiliates - Dashboard

This dashboard provides interactive views for members, society affiliates, and participants by region, geographic council, section and subsection.

- Refine data through filters or click within a visualization to view results and details.
- Hover over a visualization to display a tooltip with statistical facts.
- Important: Choose an OU from "Select OU of your Volunteer Role" filter to view customized results for your OU position.

### Count by Region and Grade

<table>
<thead>
<tr>
<th>Region Council</th>
<th>Section</th>
<th>Grade Category</th>
<th>Grade</th>
<th>Total</th>
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<tbody>
<tr>
<td>R8</td>
<td>Algeria</td>
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<tr>
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<td>Life Senior</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Total général</td>
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<td>132</td>
</tr>
</tbody>
</table>

### Count by Technology Focus Area

- Power, Energy and Industry Applications
- Computing and Processing (Hardware/Software)
- Signal Processing and Analysis
- Geoscience
- Unknown
- Components, Circuits, Devices and Systems
- Robotics and Control Systems
- Engineered Materials, Dielectrics and Plasmas
- Communication, Networking and Broadcasting
- Other
- Engineering Profession
- General Topics for Engineers (Math, Science an...

### Count by Grade and Gender

- Member
- Senior Member
- Student Member
- Graduate Student Member
- Associate Member
- Affiliate
- Fellow
- Life Senior

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2. Section vitality
Algeria section membership 2020

IEEE OU Analytics

Students - Dashboard
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Select OU of your Volunteer Role

<table>
<thead>
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<th>School Section</th>
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<td>Ecole Nationale Superie.</td>
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<tr>
<td>Algeria Section</td>
<td>Larbi Ben M'hidi O.E.B ...</td>
<td>2</td>
</tr>
<tr>
<td>Algeria Section</td>
<td>Oran Univ Des Sciences...</td>
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<td>Science And Tech Of Al.</td>
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<td>Univ Des Sciences De L...</td>
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<td>Universite Abou Bekr B...</td>
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<td>University of Boumerdes</td>
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<th>Section</th>
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<tr>
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<td>Student Member</td>
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<tr>
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<tr>
<td>Qatar Section</td>
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Student Count by Grade

Student Count by Gender

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<thead>
<tr>
<th>Gender</th>
<th>Count</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Female</td>
<td>25.00%</td>
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</tr>
<tr>
<td>Male</td>
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<tr>
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Student Count by Field of Study

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<th>Field of Study</th>
<th>Count</th>
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<tr>
<td>Computer Sciences and Information Technologies</td>
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<tr>
<td>Physical Sciences</td>
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<tr>
<td>Mathematics</td>
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2. Section vitality
section membership 2020

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<table>
<thead>
<tr>
<th>Student Count by Section and School</th>
<th>Region</th>
<th>Grade</th>
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<th>HKN Member</th>
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<tr>
<td>Section</td>
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<tr>
<td>Ecole Nationale Polytechnique</td>
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<td>Active</td>
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<td>Larbi Ben M'hidi O.E.B ..</td>
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<table>
<thead>
<tr>
<th>Student Count by Grade</th>
<th>Region</th>
<th>Council</th>
<th>Grade</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Region</td>
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</tr>
<tr>
<td>Africa Council</td>
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<td>Associate Member</td>
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</table>

| Student Count by Field of Study    | Engineering |     | 23 |

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2. Section vitality
Algeria section membership 2021

IEEE OU Analytics

Members and Affiliates - Dashboard
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Select OU of your Volunteer Role
Algeria Section

<table>
<thead>
<tr>
<th>Region Council</th>
<th>Section</th>
<th>Grade Category</th>
<th>Grade</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>R8</td>
<td>Africa Council</td>
<td>IEEE Grades</td>
<td>Associate Member</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Fellow</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td>Graduate Student Member</td>
<td>31</td>
</tr>
<tr>
<td></td>
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<td>Life Senior</td>
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<td></td>
<td>Member</td>
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</tr>
<tr>
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<td>Senior Member</td>
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<td></td>
<td>Total general</td>
<td>147</td>
</tr>
</tbody>
</table>

Count by Gender
- Male 70.07%
- Female 22.45%
- Unknown 7.48%
2. Section vitality
Algeria section membership 2020

<table>
<thead>
<tr>
<th>Region Council</th>
<th>Section</th>
<th>Count by Region and Grade</th>
<th>Grade Category</th>
<th>Grade</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>R8 Africa Council</td>
<td>Algeria Section</td>
<td><strong>IEEE Grades</strong></td>
<td>Associate Member</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fellow</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Graduate Student Member</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Life Senior</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Senior Member</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Student Member</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other Grades</td>
<td>Affiliate</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td>147</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total general</strong></td>
<td></td>
<td>147</td>
<td></td>
</tr>
</tbody>
</table>

Count by Gender

- Female: 22.45%
- Male: 70.07%
- Unknown: 7.48%

Count by Technology Focus Area

- Power, Energy and Industry Applications
- Signal Processing and Analysis
- Geoscience
- Communication, Networking and Broadcasting
- Robotics and Control Systems
- Components, Circuits, Devices and Systems

Count by Grade and Gender

- Member
- Student Member
- Graduate Student Member
- Senior Member
2. Section vitality

Student and Graduate student statistics 2021

<table>
<thead>
<tr>
<th>School Section</th>
<th>School Name</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algeria Section</td>
<td>Abdelhamid Ibn Badis U...</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Biskra University</td>
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</tr>
<tr>
<td></td>
<td>Ecole Nationale Polytechnique</td>
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</tr>
<tr>
<td></td>
<td>Larbi Ben M'hidi OEB U...</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Mentouri University Con...</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Oran Univ Des Sciences...</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Univ Des Sciences De L...</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>University Abu Bekr Bel...</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>University of Batna</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>University of Baida</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>University of Bejaou</td>
<td>22</td>
</tr>
</tbody>
</table>

**Student Count by School Section**

<table>
<thead>
<tr>
<th>Region</th>
<th>Council</th>
<th>Section</th>
<th>Grade</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Algeria Section</td>
<td>Graduate Student Member</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Student Member</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>59</td>
</tr>
</tbody>
</table>

**Student Count by Region and Council**

**Student Count by Gender**

- Female: 30.51%
- Male: 62.71%
- Unknown: 6.78%

**Student Count by Field of Study**

- Engineering: 52
- Computer Sciences and Information Technologies: 4
- Mathematics: 1
2. Section vitality

IEEE Algeria section

- Outstanding section membership recruitment performance

- Prof Adel BELOUCHRANI, from ENP, is a fellow member since 2020

- Algeria section has 26 senior members IEEE
3. Chapters and joint chapters

- IEEE Geoscience and Remote Sensing Society;
- IEEE Industrial Electronics Society;
- IEEE Industry Applications;
- IEEE Power & Energy;
- IEEE Power Electronics, IEEE Nuclear and Plasma Sciences
3. Chapters and joint chapters

Steps for creating a chapter:

➢ Find at least 12 members/ senior members/ Fellow members willing to be founders of this Chapter;
➢ Prepare a petition collecting the IEEE membership numbers and the signatures of the members (members should be from different universities, The 12 founding members must be members of IEEE for at least 6 months.)
➢ Asking for the approval of the IEEE Algeria section;
➢ All these documents and the Section approval must be provided via e-mail to the IEEE MGA staff for final approval, pending the agreement of GRSS officials.

https://mga.ieee.org/resources-operations/geographic-unit/chapters#sec4
3. Chapters and joint chapters

Algeria Chapter EM 27, Chair Pr A. Bendaoud
Algeria Chapter PE31, Chair Pr. Said Drid.
Algeria chapter GRS29, Chair Pr. Boularbah Souissi,
Algeria Joint Chapter IE13/IA34, Chair Pr. Fateh Krim
Algeria Joint Chapter NPS05/PEI32, Chair: Pr. Amar Tilmatine

➢ We listed the most meetings which were hold in 2020

We listed the most meetings which were hold in 2020

1. Algeria Joint Chapter IE13,IA34, MANAGEMENT OF THE POWER FLOW IN THE SMART GRIDS, The objective of this meeting is to discuss the essential functions associated with a smart grid among them the control of the power flow. University of Setif.

2. Algeria section Chapter GRS29, TPC&TOC MEETING FOR AGR3S 2020, A technical and organisational programs meeting for the preparation of 4th edition of the summer school AGR3S 2020 tobe held in Canstantine,. The mixed committee between the IEEE-GRSS Algeria chapter members and the responsible of the university, discussed and prepared an agenda and the necessary materials for the summer school. University of Salah Boubendir, Constantine, Algeria.
3. Chapters and joint chapters

- We listed the most meetings which were held in 2021

**IEEE GRSS ALGERIA CHAPTER & ALGERIAN ASSOCIATION OF GRS MEETING**

The members of both the IEEE GRSS Algeria chapter and the Algerian Association of Geoscience and Remote sensing organized the 1st meeting on December 25th, 2021, for future collaboration in the field of geoscience and remote sensing for different regions in Algeria, and especially in the Djelfa region which is rich in natural resources and animals. At the same time, the Algerian Space Agency will be present during the meeting to show its different services for participants and some invited institutions and organizations.
3. Chapters and joint chapters

We listed the most meetings which were hold in 2021

MEETING 2: PREPARATION OF THE 5TH SCHOOL AGR3S 2022, OCTOBER, 17TH, 2021
2nd meeting for the preparation of the 5th edition of the IEEE-GRSS AGR3S 2022 summer school.

- Algeria Section Jt Chapter, IE13/IA34
- APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES FOR FAULTS DIAGNOSIS IN PHOTOVOLTAIC SYSTEMS, SEPTEMBER, 30TH, 2021
  - This conference deals with the application of artificial intelligence techniques for the diagnosis, detection and classification of defects in photovoltaic systems. These latter like all electrical and electronic systems, can break down and degrade during the operating period. This requires a diagnostic whose main objective is to provide an automatic tool that can early detect defects to protect the persons and installations, and in addition can classify this defects.
Students

List of Student Branches (SB) in Algeria IEEE Section are listed:


The most important activities in 2020 were done virtually because of the pandemic situation, they are listed below:

**Student Branch of Boumerdes University**, DISCUSSION WITH BOUMERDES SB. Discussion about participation in a robotics competition.

**Student Branch of Polytechnic School ENP of Algiers**, FIELD TRIP TO ALGESCO, Field trip with IEEE SB members to the General Electrics turbomachinery maintenance center, ALGESCO, located in Boufarik. Blida.

**Student Branch of Boumerdes**, "MENTAL HEALTH AND THE COVID_19 PANDEMIC", The event was a Live with a doctor of psychology, to discuss the effects of the covid_19 pandemic, the lockdown and different measures that have reshaped everyday life, and their impact on mental health. University of Boumerdes.
The most important activities during 2021 were done virtually, they are listed below

**Student Branch of Boumerdes University**  
**IEEE SB UOB ARDUINO BOTCAMP**  
"IEEE SB UoB Arduino Bootcamp" is an Arduino training from A to Z for beginners, at the end participants have to implement a project to demonstrate what they have learnt during the training and participate in our internal competition as well as IEEEScuino Competition.

**WEB DEVELOPMENT: FRONT END TRAINING**

The first workshop of "Front end development" is aimed towards giving the attendees enough background to design their first websites at the end of the training using HTML, Bootstrap, JS and Jquery for responsive website designs.
4. Actions and activities

What our section should do each year?

- Plan and budget for Section activities for the year.
- Use VTools to run the Section (event schedule and report);
- Use OU Analytics to run the Section;
- Communicate with the Section membership and announce new officers.
- Review meeting reporting on vTools for your local units and contact volunteers to update.
- Plan and budget for Chapter, Student activities and Affinity Group activities for the year.
- Establish a plan for engaging with members in industry.
- Conduct an event to support involvement with local industry.
What our section should do each year as recommended by IEEE

- Report at least 5 meetings each year
- Maintain a min. 25 members other than Students
- Report at least 2 technical meetings each year
- Maintain a min. 10 members other than Students
- Report at least 2 meetings per year or maintain a level of activity acceptable to the regional director.
- Maintain a min. 6 members other than students
A General Assembly of IEEE Algeria Section Members was held on 27, February 2016, Algiers at the National Ploytechnic School ENP.

- Chair: Prof. Amar Tilmatine
- Vice Chair: Prof. Abdelouahab Mekhaldi
- Secretary: Dr. Fatma zohra Chelali
- Treasurer: Dr. Noureddine Chaib

A conference on the author Rights and plagiarism was given by Prof A. Boubakeur from ENP, Algiers.

Meeting of IEEE Algeria Section Members on 24, May 2016, Algiers

The meeting was organized by Prof Mohamed Boudour at University of Science and Technology Houari Boumediene.

Plan of the year 2016
1. Organization of workshops for each chapter;
2. Discussing the problems related to the difficulties of membership fees payment to become a member of the IEEE Algeria section;
3. Encouraging the establishment of forming IEEE young professionals (YP) Affinity Groups.

During the National Conference on the high voltage, Prof. Issouf FOFANA from Quebec University presented a talk on condition Assessment techniques for Aged transformers

Web site http://www.ieee-dz.org/
Participation of 4 students to the IEEE Tunisian Students & Young Professionals Congress (TSYP), – Tunisia, 18 – 20 December 2016: Reguig Abdeldjali, Tamerist Khalil, Hicham Berkouk and Hadj Dida Abdelkader.

The purpose of this Congress is to help students, young graduates and young professionals to better understand the different areas of engineering in promoting the exchange of knowledge and skills.
4. Actions and activities

Meeting IEEE Algeria section on April, 29th, 2017 at ENP

➢ National polytechnic School; ENP, Algiers
Meeting IEEE Algeria section on April, 29th, 2017 at ENP

- National polytechnic School; ENP, Algiers

A workshop was organized by Prof A. Mekhaldi where doctorate students have presented their research works.

Dr Mustapha Hatti has presented a talk about Smart city and announced the International Conference on Artificial Intelligence in Renewable Energetic Systems IC AIRES2017 which will be held on October 2017.
Meeting IEEE Algeria section on April, 29th, 2017 at ENP

Dr Fatma zohra Chelali presented the IEEE Algeria section vitality including membership, chapters, affinity group, sponsored conferences for 2016 and 2017. The members have discussed the situation of the actual chapters and the creation of the new chapter called Geodesy and remote sensing by Dr Souissi Boulabah.

Pr F.Krim presented the membership statistics of the section and discusses different ways to enhance membership development.

Web site http://www.ieee-dz.org/
4. Actions and activities

Meeting IEEE Algeria section on April, 29th, 2017 at ENP

Mr Hichem Berkouk presented an overview about his participation with 03 Algerian students in the IEEE Students & Young Professionals TSYP congress in December 2016 and announced the creation of the young professional group.
**4. Actions and activities**

Meeting IEEE Algeria section on April, 29th, 2017 at ENP

*Pr A. Tilmatine* presented an overview of his recent participation to the IEEE meeting in Stockholm, 24-26 March 2017. He also presented a tutorial about how to schedule and report a meeting on Vtools.

*Dr Noureddine Chaib* presented the financial activities for 2016 by presenting the actual balance.

4. Actions and activities

**Meeting IEEE Algeria section on April, 29th, 2017 at ENP**

*Pr M. Boudour* presented the request for preparing the Maghrebine conference CISTEM‘18, technically co-sponsored by Algeria and Tunisia IEEE sections.

The first edition was held in Tunis (CISTEM-2014) and the second in «Marrakesh» in 2016.

University of Science and Technology Houari Boumediene, USTHB, Algiers.

First phase to prepare the first “International Conference on Advanced Electrical Engineering 2019 (ICAEE 2019).
4. Actions and activities

Meeting IEEE Algeria section on December 2018

➢ University of Sidi Bellabes

Second phase for preparing the first “International Journal of Electronics and Electrical Engineering Systems ICAEE’19”

ICAEE’19 is Jointly co sponsored by IEEE Algeria section and the Algeria “Association Algérienne de Génie Electrique et Electronique (AAGEE)”.

4. Actions and activities

Algeria IEEE section’s Activities

➢ **International Journal IJEEES**

Algeria section has achieved some interesting activities such as the creation of a new academic research journal named “International Journal of Electronics and Electrical Engineering Systems IJEEES”, created and edited by a local national association “Association Algérienne de Génie Electrique et Electronique (AAGEE)”, in collaboration with IEEE Algeria section.

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**Association “Association Algérienne de Génie Electrique et Electronique (AAGEE)”,**
https://www.aagee.dz/

**IJEEES (International Journal of Electronic and Electrical Engineering Systems**
https://ijeees.com/
4. Algeria IEEE section’s Activities


The IEEE Algeria Section and the AAGEE "Association Algérienne de Génie Électrique et Électronique" has organized the International Conference on Advanced Electrical Engineering 2019 (ICAEE 2019) 19th to 21th November, 2019 at Algiers, National Library, EL Hamma, Algeria.
4. Algeria IEEE section’s Activities

International Conference on Advanced Electrical Engineering 2019 (ICAEE 2019)

Chair: Dr B, SOUISSI
Vice Chair: Prof A. MEKHALDI and Dr FZ CHELALI
Technical Chair: Pr A. KHEZZAR And Pr L. BAGHLI

220 papers accepted over 450 papers submitted

The Electronic Club « CLUB CELEC » from USTHB has participated in the organizing committee

Financial sponsors: BMS and ESLI
4. Algeria IEEE section’s Activities

International Conference on Advanced Electrical Engineering 2019 (ICAEE 2019)
4. Algeria IEEE section’s Activities

➢ Meeting Algeria IEEE section/ USA IEEE section

➢ Online meeting using Zoom, November, 7th, 2020

This meeting was conjointly organized by IEEE Algeria section, Pr Mohamed Rachedine and Pr Cherif Chibane from USA who present their wishes to help our section in organizing tutorial for students.

Meeting:

Benefits of IEEE activities and membership in career development and advancement, Dr. Naresh Chand, IEEE Life Fellow, New Jersey, USA

Moderator of the meeting: Prof Cherif Chibane and Prof Mohamed Rachedine

Presentation of Algeria IEEE section: Dr Fatma zohra Chelali

Web site http://www.ieee-dz.org/
4. Algeria IEEE section’s Activities

Meeting Algeria IEEE section/ USA IEEE section

2. Online meeting, November 7th, 2020

Benefits of IEEE activities and membership in career development and advancement, Dr. Naresh Chand, IEEE Life Fellow, New Jersey, USA

Biography: Presently Dr. Naresh Chand represents IEEE Photonics Society in multiple voluntary capacities. Recently he retired from the US R&D Center of Huawei Technologies in NJ where he was working on developing low-cost advanced technologies for Ultra-Broadband Optical Access Networks since 2011. Prior to this, he worked for BAE Systems (2003-11), Agere Systems and AT&T/Lucent Bell Laboratories (1986-2003), and Dept of Electronics, Government of India (1974-79). His areas of research include optical communication systems, fiber-to-the-home, RF over fiber, Communication lasers and detectors, HBTs, HEMTs, QWIPs, GaAs/Si and AlGaAs/GaAs MBE. He has several firsts and world records to his credit. He has authored > 180 research papers and 15 patents (issued). He did his M.Sc. (Tech) Electronics in 1974 from BITS, Pilani with Gold Medal On a British Commonwealth Scholarship, he did his M. Eng. (1980) and Ph.D. (1983) in EE from the University of Sheffield, UK. He also did 2 years post-doctoral research at the University of Illinois, Urbana, IL. From 1974 to 1979 in the Dept. of electronics, Govt. of India, he was involved with the licensing and development of Electronic Component industry in India.
4. Algeria IEEE section’s Activities

Virtual meeting using Google meet

› Preparation of Algeria SIGHT Group

› Meeting of the staff of IEEE Algeria section

On Sunday, March 21, 2021 at 07:30 PM, local time

Guests: Dr Kahina Lasfer, from Stevens Institute of Technology, Hoboken. Design Manager (Chef de projets) at MTA (Metropolitan Transit Authority) Technology & Systems Department, New York, US. United States. IEEE member and IEEE SIGHT volunteer.

Prof. Samir Aouadi, Department of Materials Science and Engineering, University of North Texas, USA. Member of the AAASTE: Algerian American Association For Science Technology and Entrepreneurship.
4. Algeria IEEE section’s Activities

Virtual meeting using Google meet

Preparation of Algeria SIGHT Group

Dr Kahina and Prof Aouadi presented the objective of this cooperation to create an IEEE SIGHT Algeria group aiming to promote and encourage humanitarian projects in Algeria with the help of IEEE.

The staff of the IEEE section appreciated this action and decided to join this project which aims to develop innovative projects and to encourage researchers and students to send their proposals for a project of socio-professional interest. Algeria section planned to create a SIGHT IEEE Group for Humanitarian Technology.

https://sight.ieee.org/about-ieee-sight/
4. Algeria IEEE section’s Activities

Virtual meeting using Google meet

- **Preparation of Algeria SIGHT Group**

Meeting of IEEE Algeria SIGHT Group

Sunday, December 05\(^{th}\), 2021 at 06:00 PM, Algiers local time

The Algeria Sight Group has been established and the IEEE SIGHT Group Petition has been submitted to IEEE, but can't be reviewed by the SIGHT team until January 2022. The official list of all members who joined the Group was also submitted. The initial number of the group is about 16 IEEE members and student members.

Indeed, the Group will target scientific clubs and individuals in the Algerian universities, mainly in National Polytechnic School ENP, Univ of science and Tech USTHB, Univ of Tlemcen, of Constantine, Setif, Boumerdes, Saida, Blida, Sidi Bellabes, Msila, Djelfa, Adrar, Biskra, El Oued, USTO, Batna, Setif, Skikda, Laghouat, Ouargla, etc.

Virtual meeting using Google meet

Preparation of Algeria SIGHT Group

Meeting of IEEE Algeria SIGHT Group

Sunday, December 05\textsuperscript{th}, 2021 at 06:00 PM, Algiers local time

1. Appearance of the SIGHT Group: We wish to enrich the visibility of the group by inviting several researchers and students to join this project. News of the group's creation will be disseminated by current IEEE members.

2. Reach the government level: Submitted and accepted projects are beneficial to the country and constitute an important technological development and can be classified as innovative projects.

How to start a SIGHT Group

http://ieee-sight-toolkit.org/start/

https://sight.ieee.org/about-ieee-sight/
In general, the technical sponsor of IEEE is approved when the followings conditions are respected by the organizers of the conference.

Firstly, organizers should transmit a letter to the chair, President of Algeria IEEE section, where they mentioned the following points or details (scientific committee, dates or deadlines, location and the web site, etc).

The scientific committee must contain at least 10% IEEE members. After the approval of the section and MCE IEEE (Meeting Conferences and events), they should publish the accepted papers in IEEEXplore (recommended), Algeria section will assist them for the different tasks needed.

The IEEE Conference Application requests sponsorship approval from IEEE; permission for naming; and use of the IEEE Logo.

check our web site http://www.ieee-dz.org/sponsoring.php
5. IEEE Conferences technically sponsored

- Past International Conferences

- In 2015, eight (08) international conferences was co-sponsored technically by the section (ICEE2015, ICATS'15, CIAM'2015, NTIC'15, PAIS2015, CEIT'2015, ICT-TELECOM'2015, ISPS'2015)
  In 2016: (ICAASE’16, ICESTI’16 and ICMIC2016).

- Many conferences have been technically co-sponsored by IEEE and indexed in IEEEXplore such as ISPS’17, ICEE’17, DAT’17, ICAEE’19

For more details, please check our section website

Past conferences
http://www.ieee-dz.org/past-conferences.php
Past International Conferences

- IC-AIRES2017 University Center of Tipaza, Tipaza, Algeria, October 22-24, 2017.
- The 5th International Conference on Electrical Engineering – ICEE’2017, October 29th to 31st, 2017, Boumerdes, Algeria;
- 2018 International Conference on Advanced Systems and Electric Technologies (IC_ASET).
- 2018 2nd International Conference on Natural Language and Speech Processing (ICNLSP)

Past conferences
http://www.ieee-dz.org/past-conferences.php
Past International Conferences:

- 2018 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM).

CISTEM’18. ICCEE'18, IC_ASET’19 and IC_ASET 21 jointly sponsored with Tunisia IEEE section

A conference with the national company of Electricity and gaz (Sonelgaz) was organized on February 2019. Some industrials are promoting financial sponsor for our conferences organized with IEEE. We aim to involve some industrials in promoting research at universities.

Past conferences
http://www.ieee-dz.org/past-conferences.php
Algeria IEEE section’s Activities

5. IEEE Conferences technically sponsored

- Past International Conferences:
  - The First International Conference on Communications, Control Systems and Signal Processing (CCSSP 2020), 16-17 March 2020, El-Oued, Algeria;
  - 1st International Conference on Sustainable Renewable Energy Systems and Applications (ICSRESA),
  - 2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI);
  - The 4th International Conference on Advanced Systems and Emergent Technologies (IC_ASET’2020).

Past conferences
http://www.ieee-dz.org/past-conferences.php
Future International Conferences

- The 2nd International Conference on Advanced Electrical Engineering 2022 (ICAEE 2022) will be held from 29th to 31st October, 2022 at the Frères Mentouri Constantine 1 University in Constantine, Algeria;
- The 4th International Conference on Applied Automation and Industrial Diagnostics, ICAAID 2022, March 29-31, 2022, Hail, KSA;
- The 5th International Conference on Power Electronics and their Applications ICPEA 2022, March 29-31, 2022, Hail, KSA;
- The International Conference IC_ASET’2022, Hammamet–Tunisia, from March 22 to 25, 2022.
6. Recommendations

- Our recommendation consists of linking the different sections in Africa Council involved to share ideas related to IEEE activities.
- Promoting membership, inviting industrials, etc;
- Promoting Conference education program;
- It is imperative to seek the students affiliated to IEEE to create their own "Students Branches (SB)" in several universities.
- Encourage the link between industrial companies and university students through events organized by IEEE Algeria such as conferences, forums or the days of studies involving the two parties.
6. Recommendations

- Create educational activities and seminars within universities for promoting the IEEE section by inviting distinguished lectures;
- Encourage online seminars to benefit a large number of participants;
- Improve the visibility of the IEEE section by improving the website and publish all the activities carried out by the IEEE section;
- Encourage Student Branch to organize scientific workshops for PHD and master students;
Thank you for being member of IEEE Algeria section

The staff of IEEE Algeria section
Prof. A. MEKHALDI, ENP, Algiers
Dr. FZ. CHELALI, USTHB, Algiers
Dr. N.CHAIB, University of Iaghouta
Prof. S.DRID, University of Batna