

## **IEEE and IEEE Region 8 Update: an Overview**

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Region 8 Life Members Affinity Groups In-person meeting, Prague, Check Republic, 26-27 October, 2022



## Welcome to your professional home



IEEE

### The professional home for the engineering and technology community worldwide



Welcome to Region 8 Life Members (and Young Professionals) in-person meeting, with the motto: The current YPs are the LMs of the future!!!

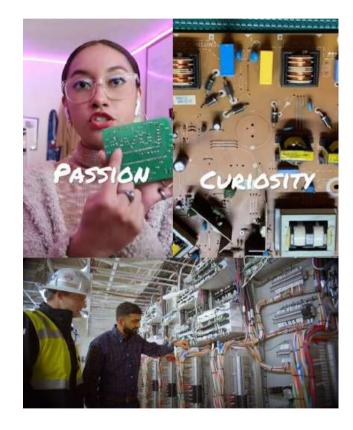
- The perfect scenario to talk of IEEE as professional home
- From the beginning of a technical career to a full life of professional achievements
- And with the added benefits of volunteering to serve IEEE members at each stage of their professional life



## What is IEEE?

IEEE is a worldwide community that inspires and is passionate about the advancement of technology for the benefit of humanity and in providing those who engage with the opportunity to network, collaborate, publish, work on technical standards, and receive educational activities.

IEEE is the community to engage with to do more based on your individual needs. As you experience career changes and move through your professional journey, IEEE is the community you can engage with throughout your lifetime.





#### IEEE is your professional home.

### **IEEE today at a glance**



## **IEEE Region 8 at a glance**

# Largest and most diverse

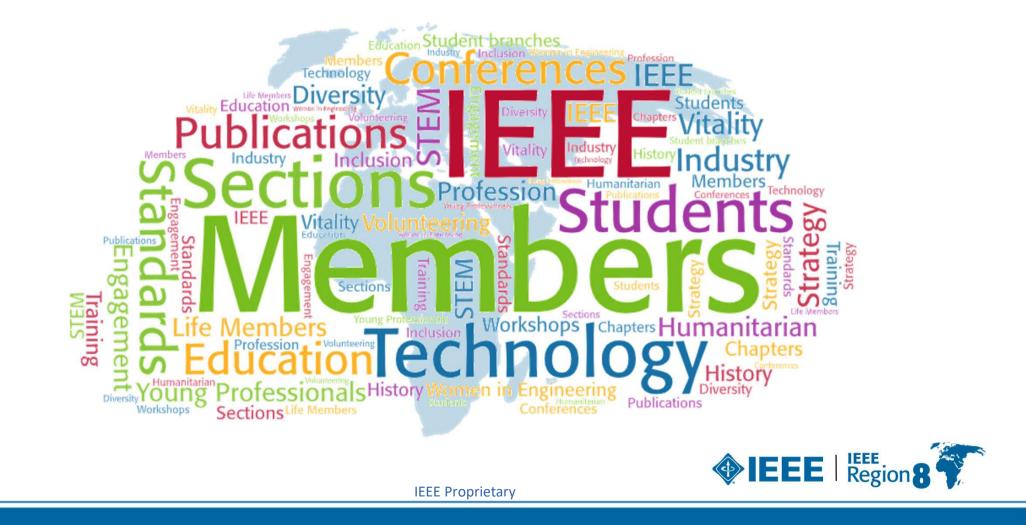
- 70,000 members in over 100 countries
- 59 Sections, 10 Subsections and 1 Council
- More than **20,000** Student members

- Region Region Region Region Region Region 9 10
- 625 Chapters that unite local members with similar technical interests.
- 683 Student Branches at colleges and Universities in 60 countries
- **441** Student Branch Chapters of IEEE Technical Societies
- 107 Affinity Groups, among them, 53 YP and 17 LM AGs



### **Activities in IEEE and IEEE Region 8**

7



### **Standards**

Other layers	Other layers
802.1 Internetworking	Network
802.2 Logical link control (LLC)	Data link
802.3802.4802.5CSMA /CDToken busToken ring	Physical
Project 802	OSI Model

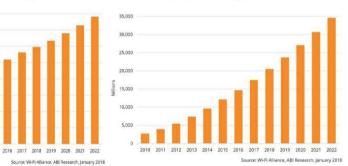
#### **IEEE – THE WI-FI MARKET**

With around 18 billion Wi-Fi devices shipped, 8 billion still in use and 3 billion new ones added every year, compared to 1.6 billion smartphones devices annually shipped.

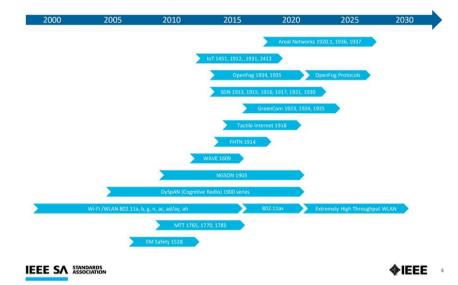
#### Figure 2: Wi-Fi Device Annual Shipments

2014 2015

Figure 3: Wi-Fi Device Cumulative Shipments



#### **IEEE – CORE TECHNOLOGY STANDARDS FOR WIRELESS NETWORKS (DRAFT)**





**IEEE Proprietary** 

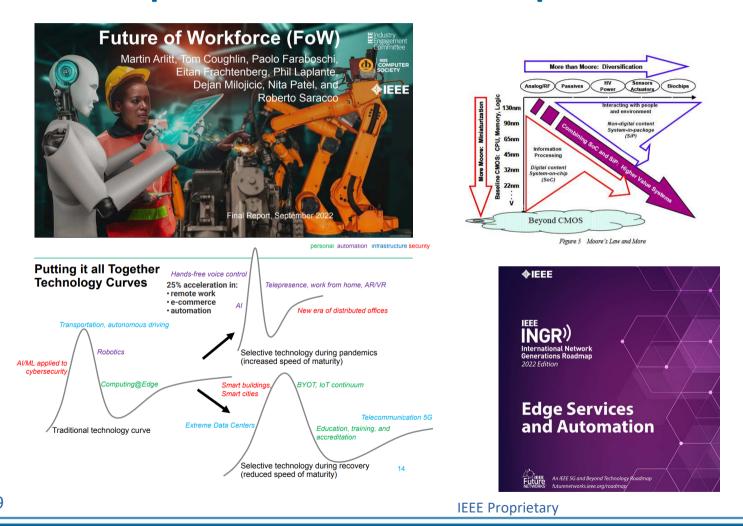
4.000

3.000

2,500

2.000

### **Future predictions and roadmaps**



# لٹریٹ ROADMAPS





INTERNATIONAL ROADMAP FOR DEVICES AND SYSTEMS

INTERNATIONAL ROADMAP FOR DEVICES AND SYSTEMS<sup>™</sup>

2021 UPDATE

EXECUTIVE SUMMARY

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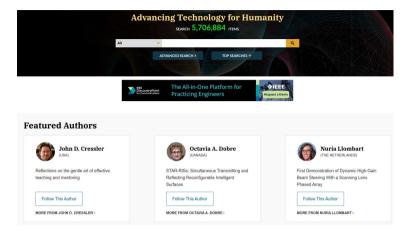


9

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**Upcoming conferences** 

## EUROCON 2023 Torino, Italy July 2023



## AFRICON 2023 Nairobi, Kenya September 2023



## HISTELCON 2023 Florence, Italy September 2023





## Help others and help yourself: volunteer for IEEE

- As a volunteer-led organization, all of us can have a say on what IEEE will be in the future.
- IEEE served the scientific community and Humanity at large in this changing world for many years with countless initiatives: e.g.,
  - WIE, promoting female participation in technology
  - Humanitarian Technologies projects & programs, e.g., SIGHT (Special Interest Group on Humanitarian Technologies) projects
  - Public Policy
  - Ethics, Diversity, Equality and Inclusion
  - More recently: Artificial Intelligence, 5G, Rapid Response to Covid-19
- Major benefit for volunteers who serve IEEE and its members through positions at local, regional, technical or global level: to acquire leadership skills which are seldom offered by Academia



I Change the World. I'm an Engineer



### **Opportunities for volunteering at IEEE Region 8**

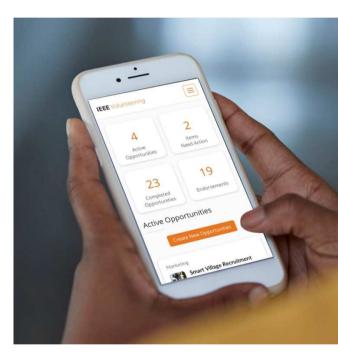


### Get involved and help others to engage!



IEEE is a volunteer-driven organization. Get involved and make the most of your membership!

Let other members learn from your experience and help them to become active volunteers





# Enjoy the R8 Life Members – Young Professionals meeting!

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