

## Jordan Section

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### 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.

Answer:

Date of last Section elections: DEC 2023.

Date of next elections (Oct- Nov 2025: Tentative)

Do you have the practice of Vice-Chair becoming the next Section Chair: No. But this is an option.

Section ExCom meetings

Answer:

**Year 2022:** 9/2/2022, 29/3/2022, 1/5/2022, 1/7/2022, 10/9/2022, 12/11/2022

**Year 2023:** 10/2/2023, 1/4/2023, 20/6/2023, 23/8/2023, 10/10/2023, 20/12/2023

### Activities to Increase or Retain Membership:

The CS and CIS joint chapter had a technical event that targeted IEEE members and non-IEEE members, which aimed to increase the IEEE membership rate. Below is a brief description about the event.

- Panel Discussion
  - Title: “The reality and future of Jordanian higher education in the fields of artificial intelligence and robotics”
  - Date: September 2023
  - Audience: Government, Academia, and Industry



### Students

List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting (Dec, 2023). List the student meetings held and Section activities addressed to Students and Young Professionals.

#### List of Student Branches (SB) in your Section:

1. Al al-Bayt University
2. Al-Ahliyya Amman University
3. Al-Balqa Applied University
4. Al-Balqa Applied University – Center
5. Al-Huson University College

6. Al-Hussein Bin Talal University
7. Al-Zaytoonah University of Jordan
8. Applied Science University
9. German Jordanian University
10. Hashemite University
11. Jordan University of Science and Technology
12. Mutah University
13. Philadelphia Univ
14. Princess Sumaya University for Technology
15. Tafila Technical University
16. The University of Jordan
17. University of Petra
18. Yarmouk University

The newly formed or dissolved SBs:

1. None.

But we are working to open a new SB in several universities (e.g. American University in Madaba, Isra University, Middle East University, Zarqa University, etc.)

#### **Selected Student Branches Activities**

-Many workshops like: Arduino applications, ITEEEcup, Personal Development, online webinars with multi-discipline speakers in Power, Energy, Signal Processing, Robotics & Communication engineering.

**Please visit the section Facebook page for the more details about these activities:**

**<https://www.facebook.com/groups/IEEEJordanSection>**

#### **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 (Oct 2020). List the activities intended to support affinity groups.

We have three Affinity Groups:

- Women In Engineering (WiE)
- Young Professional (YP).
- Life Members Affinity Group (LMAG)

WiE selected activities

- Research Series
  - Overview: This activity includes list of technical talks delivered by experts from different domains. The following table shows the details of the series.
  - Date: November and December 2023

Title	Speaker	Date	Time
<b>Deep Learning and Large Language Models in Arabic Language Processing</b>	Prof.Gheith Abandah	22-11-2023	7:00 pm
<b>The future is now: designing for security and resilience.</b>	Dr.Eman Hammad	26-11-2023	7:00 pm
<b>Artificial intelligence in medical signal and image processing</b>	Dr.Amani Al-Ghraibah	27-11-2023	7:00 pm
<b>Index-Modulation for Decision Gathering in WSNs</b>	Prof.Abdullah Alhasanat	28-11-2023	7:00 pm
<b>Learning on and from Graphs: Applications to social and biological sciences</b>	Prof.Selin Aviyente	29-11-2023	7:00 pm

Title	Speaker	Date	Time
<b>Advancing Smart Cities through LiDAR Technology: Challenges and Opportunities</b>	Dr.Ahmad Alsharoa	10-12-2023	7:00 pm
<b>Federated Learning in Wireless Networks</b>	Prof.Mustapha Benjillali	21-12-2023	7:00 pm
<b>Recent Advances in Multiple Access Techniques for Beyond 5G Systems</b>	Prof.Saud Althunibat	26-12-2023	7:00 pm
<b>Statistical signal processing meets statistical machine learning</b>	Dr.Arash Mahyari	28-12-2023	6:00 pm

YP selected activities

- MATLAB Course
  - Overview: 12 Hours course on how to use MATLAB
  - Date: December 2023



- Invited talk
  - “Data Science; a roadmap to real world applications” by Prof. Alaa Sheta (December 2023)



## Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (Dec 2023). Indicate how many have reported on time and received rebate. Highlight some of the activities.

### List of chapters:

- Jordan Section Chapter, EMB18
- Jordan Section Chapter, IA34
- Jordan Section Chapter, RA24
- Jordan Section Jt Chap, CIS11/C16
- Jordan Section Jt Chap, PE31/DEI32
- Jordan Section Jt. Chapter, SP01/COM19

### List of students' chapters and affinity groups

- Al-Balqa Applied Univ, PE31/IA34
- Al-Balqa Applied University, C16
- Al-Balqa Applied University, RA24
- Al-Balqa Applied University, WIE
- Al-Balqa Applied University, AES10
- Al-Balqa Applied University, COM19
- Al-Balqa Applied University, SP01
- Al-Huson University College, WIE
- Al-Hussein Bin Talal University, C16
- Al-Zaytoonah Univ Of Jordan, SP01/COM19
- German Jordanian University, C16
- German Jordanian University, CT08
- German Jordanian University, EMB18
- German Jordanian University, IE13
- Hashemite University, C16

- Hashemite University, EMB18
- Hashemite University, PE31/IA34
- Hashemite University, RA24
- Hashemite University, WIE
- Jordan University of Science & Technology, C16
- Jordan University of Science & Technology, EMB18
- Jordan University of Science And Tech, WIE
- Mutah University, C16
- Mutah University, PE31
- Mutah University, WIE
- Philadelphia Univ, PE31
- Princess Sumaya University for Technology, WIE
- Princess Sumaya University for Technology, C16
- Princess Sumaya University for Technology, COM19
- Princess Sumaya University for Technology, PE31
- Princess Sumaya University for Technology, RA24
- Tafila Technical University, PE31
- Tafila Technical University, RA24
- University of Jordan, AES10
- University of Jordan, AP03
- University of Jordan, C16
- University of Jordan, COM19
- University of Jordan, PE31
- University of Jordan, RA24
- University of Jordan, WIE
- University of Jordan, CIS11
- Yarmouk University, AES10
- Yarmouk University, COM19
- Yarmouk University, PE31
- Yarmouk University, RA24
- Yarmouk University, C16
- Yarmouk University, EMB18
- Yarmouk University, IA34
- Yarmouk University, WIE

### **Selected activities**

The chapters have arranged many activities, below are some selected ones.

#### Comsoc Events Summary

- Wireless Data-Rate Meter using Deep Learning Competition in collaboration with Mathworks
  - IEEE ComSoc and SPS joint chapter in Jordan is organizing the first competition of its kind with Mathworks company. The competition focuses on applying communications, signal processing, and AI to solve real problems.
  - The competition is still running
  - Website: <https://www.mathworks.com/academia/student-competitions/wireless-data-rate-meter.html>

### RAS Events Summary

- Technical Sponsorship of the 5th Fire Fighting Robot Contest (FFRC)

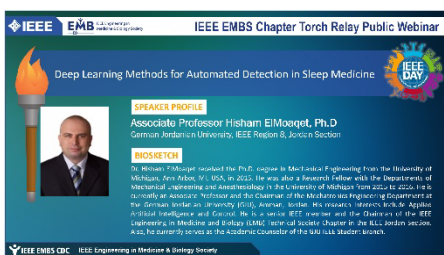


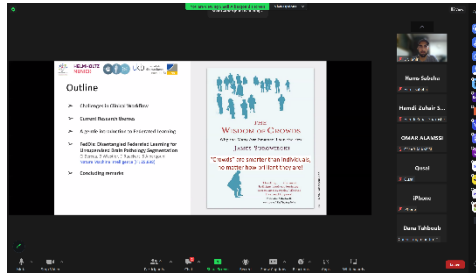
- Technical Sponsorship of the 22nd International Conference on Research and Education in Mechatronics (REM) that will be held in September 2024.



### EMBS Events Summary

- Invited talks
  - “Deep Learning is Sleep medicine” by Dr. Hisham Almoaqet (October 2023)
  - “Biotechnology in Medicine” by Prof. Areej Assaf (October 2023)
  - “Biotechnology in Engineering” by Dr. Heba Alzaben (October 2023)
  - “Federated Learning in Computational Medical Imaging” by Prof. Shadi Albarqouni (September 2023)





## Industry

List the activities carried out to foster relations with Industry and the results obtained.

We did not have a specific activity with the industry in the past period.

## Activities since the last report

Highlight some of the activities in your Section, with special attention to the things that work well, and things that don't, so that your acquired know-how can be used by other Sections.

**Please visit the section Facebook page for more activities:**

**<https://www.facebook.com/groups/IEEEJordanSection>**

## Planned activities

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

Answer:

Each technical society has a series of planned event that includes workshops, seminars, invited talks, etc. that were discussed in the annual meeting.

The section is currently engaged in providing technical co-sponsorship for the below conferences:

- JIBEC The Second Jordanian International Biomedical Engineering Conference  
22- 23th May, 2024 <https://www.jeaconf.org/JIBEC>
- ICT 2024: The International Conference on Telecommunications (ICT) June 24-27 2024 <https://ictjordan2024.com/>
- 9th ICACCE 2024 9th International Conference on Advances in Computing and Computation Engineering (9th ICACCE 2024)  
10-20 Aug 2024 <https://sites.google.com/view/icacce2024/home>
- REM 2024: 2024 22nd International Conference on Research and Education in Mechatronics (REM 2024) 24-26th September, 2024
- ICICS2023: 14th International Conference on Information and Communication Systems pending November 23-25, 2023
- ACIT The International Arab Conference on Information Technology (ACIT)  
December 10-12, 2024 <https://acit2k.org/ACIT/>

Few more requests are still under study.

**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.

Answer:

Provide more funding for SIGHT projects

By increasing the membership value (e.g. offering more free online courses with certificates to the members)

**Any other issues of interest**

I like to have a platform to search for all the awards given to all the OUs within the section.

I suggest to provide a dropdown list of affiliations so that we have consistent naming of the affiliation. Currently members enter free text which may cause members belonging to the same institute to enter slightly different names. This complicates getting accurate statistics.