

## IEEE Jordan Section

**Dr. Ala' Khalifeh, Section chair**

### 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.

#### Answers

Date of last Section elections: DEC 2021

Date of next elections (Oct 2023: Tentative)

Do you have the practice of Vice-Chair becoming the next Section Chair: No.

Section ExCom meetings

Answer:

**Year 2022:** 9/2/ 2022, 29/3/2022, 24/5/2022, 22/6/2022, 6/10/2022

### Students

List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting (Oct 2020). List the student meetings held and Section activities addressed to Students and Young Professionals.

#### Answer

List of Student Branches (SB) in your Section:

1. University of Jordan
2. Princess Sumaya University for Technology
3. Yarmouk University
4. Al-Balqa Applied University – Center
5. Jordan University of Science & Technology
6. Applied Science University
7. Tafila Technical University
8. Hashemite University
9. Al-Zaytoonah Univ Of Jordan
10. Al-Hussein Bin Talal University
11. Al-Huson University College
12. Philadelphia Univ
13. German Jordanian University
14. University of Petra
15. Mutah University
16. Al-Balqa Applied University
17. Al Hussein Technical University

The newly formed or dissolved SBs:

18. None.

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

### Selected Student Branches Activities (AFTER April 2022)



Collaboration between students from Al-Balqa' Applied University's Artificial Intelligence College and members of the Engineering Technology College's Robotics and Automation Society has produced many achievements.

The teams' submissions for "the fire fighter contest 2022," which was held at PSUT, earned them two prizes: second place for best robot strategy and programming and third place for best robot design.

We are honored to extend this invitation and grateful for his financial and spiritual support as host members of our community at the Rector's Office today. Dr. Ahmad Fakhri Al-Ajlouni, Dr. Ahmed Awwad, dean of the Engineering Technology College, Dr. Hamza Al-Dabbas, dean of the Artificial Intelligence College, and Drs. Aws Al-Qaisi, supervisor of our student branch and director of the Innovation and Creativity Center, thank them for coming and for their ongoing support and point them in our direction.

Our society values and is proud of its members, and we wish them continued success.



The workshop (Introduction to Electrical Wiring Diagram Design using EPLAN Electric) was concluded on Sep 22 2022 at the Engineers Training Center of Jordanian Engineers Association and certificates of attendance were given to the participants ... Thanks to our EPLAN specialist, Eng. [Waleed H. Al-Natsheh](#) from Altran Magnetics, for delivering such a wonderful, full of information, workshop.

The workshop was organized by the [IEEE RAS Jordan Chapter](#).



The digital transformation and the changing nature of the infrastructure in work and learning tools According to this context, there was a need to learn and adapt to many digital tools, such as Microsoft office software and Google drive services. Accordingly, the IEEE team at Philadelphia University and Al Al-Bayt University coordinated and planned a training focus on these tools. As the training targets branch members in both universities. The event took place on Sep 22 2022.

More events can be found on

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

<https://www.facebook.com/IEEEJO>

#### 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 (April 2022). List the activities intended to support affinity groups.

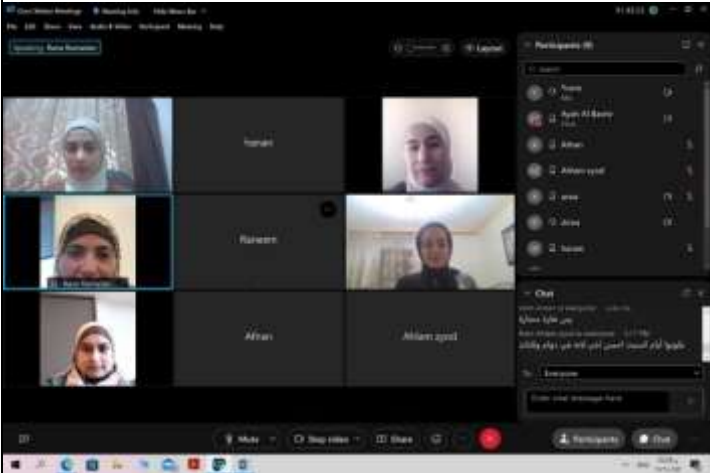
#### Answer

We have two Affinity Groups:

- Women In Engineering (WiE)
- Young Professional (YP).

**WiE selected activities**

Event 1

Event date:	12-2-2022
Event location:	Online
Event description:	Administrative meeting
Number of audiences:	8
Target audience the (students, professionals):	All WIE full members in Jordan section
Even brief description:	WIE in Jordan plans to hold monthly Qualification Sessions aim to develop its members' capacity in both directions; branch leadership and self-development.
Pictures:	


Event 2

Event date:	12-3-2022
Event location:	Online
Event description:	<b>Qualification Series -1</b>
Number of audiences:	27
Target audience the (students, professionals):	WIE Professionals and students
Even brief description:	<b>Info about WIE</b> presented by Eng. Rana Ramadan.
Pictures:	Not available

Event 3

Event date:	26-3-2022
Event location:	Online
Event description:	<b>Qualification Series -2</b>
Number of audiences:	31
Target audience the (students, professionals):	WIE Professionals and students
Even brief description:	<b>Communication Skills</b> presented by Dr. Yusra Obeidat
Pictures:	Not available


Event 4

Event date:	28-3-2022
Event location:	Mu'tah University
Event description:	<b>WIE lunching at Mu'tah University</b>
Number of audiences:	Mu'tah's IEEE Student Branch
Target audience the (students, professionals):	Mu'tah's IEEE Student Branch and professional guests
Even brief description:	<b>WIE Affinity &amp; PES Society lunching at Mu'tah University</b>
Pictures:	


Event 5

Event date:	7-5-2022
Event location:	Online
Event description:	<b>Qualification Series -3</b>
Number of audiences:	28
Target audience the (students, professionals):	WIE Professionals and students
Even brief description:	<b>Teamwork Skills</b> presented by Dr. Yusra Obeidat
Pictures:	Not available

### Event 6

Event date:	21-5-2022
Event location:	Online
Event description:	<b>Qualification Series -4</b>
Number of audiences:	39
Target audience the (students, professionals):	WIE Professionals and students
Even brief description:	<b>Introduction to strategic planning using LEGO utilities</b> presented by Eng. Ruba Ahmad
Pictures:	

### Event 7

Event date:	16-7-2022
Event location:	Online
Event description:	<b>Qualification Series -5</b>
Number of audiences:	14
Target audience the (students, professionals):	WIE Professionals and students
Even brief description:	<b>How to market yourself</b> presented by Eng. Dima Saleh.
Pictures:	

### YP selected activities

### Event 1

Event date:	23/06/2022
Event location:	Al-Hussein Technical Uni
Event descrip-	IEEE Young Professionals Gathering

tion:	
Number of audiences:	50
Target audience the (students, professionals):	Students and Young Professionals
Event description:	<p>IEEE Young Professionals Jordan Gathering” our first event in 2022, relies on all aspects of pioneering and work to provide fresh graduates, engineers working in the labour market, and attendees with all that is new in the pioneering world.</p> <p>Also, it will contain Inspirational discussion sessions by successful speakers from different fields.</p> <p>Entrepreneurship, how to start your project, and problems you may face. All of that and more will be discussed. It will take place on 23-6-2022 from 2:00 pm until 6:00 pm at Al-Hussein Technical University (HTU) SB.</p>
Pictures:	<a href="https://drive.google.com/drive/folders/1upok1P6WWqYxEXVFxuZI_JK0vMT21_oe?usp=sharing">https://drive.google.com/drive/folders/1upok1P6WWqYxEXVFxuZI_JK0vMT21_oe?usp=sharing</a>

### **Event 2**

Event date:	2/07/2022
Event location:	Al-Hussein Cultural Center
Event description:	Participation in the IEEE spectrum lab 4
Number of audiences:	200
Target audience the (students, professionals):	Students
Event description:	The fourth edition of the IEEE Spectrum Lab; which is a major scientific conference aimed at all students from all engineering disciplines as well as students interested in technological fields from all Jordanian universities.
Pictures:	<a href="https://drive.google.com/drive/folders/1ky9XLqg5ZWYhVsLFIUXKPX11vE3tsjPI?usp=sharing">https://drive.google.com/drive/folders/1ky9XLqg5ZWYhVsLFIUXKPX11vE3tsjPI?usp=sharing</a>

### **Event 3:**

Event date:	2/07/2022
Event location:	Yarmouk Uni
Event description:	Participation in the IEEE ESBC 22
Number of audiences:	150
Target audience the (students, professionals):	Students and Young Professionals
Event description:	The second edition of the IEEE Engineering Student Branch Congress; is a Communication congress aimed at all students interested in communication fields from all Jordanian universities.
Pictures:	<a href="https://drive.google.com/drive/folders/1c-GrJp80unls4Nqi1tz7lKgnOAhfLmsP?usp=sharing">https://drive.google.com/drive/folders/1c-GrJp80unls4Nqi1tz7lKgnOAhfLmsP?usp=sharing</a>

### **Event 4:**

Event date:	2/8/2022 to 7/8/2022
Event location:	Tunisia
Event description:	Participation in the IEEE R8 SYP congress



tion:	
Number of audiences:	200
Target audience the (students, professionals):	Students and Young professionals
Event description:	The IEEE R8 Student and Young Professional Congress is the largest event in all Region 8. It occurs every two years and gathers both students and young professionals members from all Sections in this Region. SYP's main goal is to enhance and foster the engineering sense and capabilities through different activities both technically and culturally. It also provides an opportunity to network.
Pictures:	<a href="https://drive.google.com/drive/folders/1ky9XLqg5ZWYhVsLFIUXKPX11vE3tsjPI?usp=sharing">https://drive.google.com/drive/folders/1ky9XLqg5ZWYhVsLFIUXKPX11vE3tsjPI?usp=sharing</a>

### Event 5:

Event date:	13/8/2022
Event location:	ZINC, King Al Hussein Business Park
Event description:	Participation in the IEEE Grand Tech
Number of audiences:	100
Target audience the (students, professional):	Students and Young Professionals
Event description:	Grand Tech is a yearly mega event that was produced for the first time in 2014 by IEEE HU CSC, this year it was held in its sixth edition with the 4th Industrial Revolution Theme.
Pictures:	<a href="https://drive.google.com/drive/folders/1yD7yzE7rtLIKUofl4zhbyXU3owom3e7U?usp=sharing">https://drive.google.com/drive/folders/1yD7yzE7rtLIKUofl4zhbyXU3owom3e7U?usp=sharing</a>

### Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (April 2022). Indicate how many have reported on time and received rebate. Highlight some of the activities.

#### List of chapters:

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

#### List of students' chapters

- Al-Balqa Applied Univ, C16
- University of Jordan, RA24
- University of Jordan, PE31
- Tafila Technical University, PE31
- Al-Balqa Applied Univ, RA24
- Yarmouk Univ, PE31
- Al-Balqa Applied University, COM19

- Al-Balqa Applied Univ, PE31/IA34
- University of Jordan,COM19
- Jordan Univ of, C16
- Yarmouk Univ, RA24
- Yarmouk University, EMB18
- Yarmouk University, C16
- Princess Sumaya University for Technology,COM19
- Al-Balqa Applied University,SP01
- Yarmouk University, IA34
- Hashemite University,PE31/IA34
- Hashemite University, EMB18
- Yarmouk Univ, COM19
- Princess Sumaya University for Technology,RA24
- Princess Sumaya University for Technology,C16
- Jordan University of Science & Tecnology, PE31
- Hashemite University, RA24
- Hashemite University, C16

**Selected activities**

**RAS Jordan Chapter**

Event 1

Event date:	24-25 September 2022
Event location:	Engineering Training Center at the Jordanians Engineers Association
Event description:	Introduction to Electrical Wiring Diagram Design Using EPLAN Electric Workshop
Number of audiences:	18
Target audience the (students, professionals):	Students and professionals
Even brief description:	Since using computer technology worldwide is a must nowadays, engineers and even everyone, has to keep up to date with this technology era. Most of the engineering work now is done using special software programs that can accelerate, calculate, and even simulate designs to validate their durability and reliability. With this workshop, the participant will be able to learn the basics for one of these software programs, EPLAN Electric, which is specified in electrical wiring diagram design. Such software programs come with lots of features that make engineering job easier than before. This workshop aslo covers the brief basics of electrical definitions, standards, and components in order to gain a good understanding of using such knowledge and concepts to interpret them within the electrical design in EPLAN.
Pictures:	<a href="https://events.vtools.ieee.org/m/324350">https://events.vtools.ieee.org/m/324350</a>

### Event 2

Event date:	1 September 2022
Event location:	Princess Sumaya University for Technology
Event description:	The Third Fighter Contest
Number of audiences:	70
Target audience the (students, professionals):	Students and professionals
Even brief description:	The Fire Fighter Contest is one of the relatively recent competitions in the field of robotics. The aim of such contest is to simulate the process of extinguishing fires and rescuing civilians using robots. This is the third version of the contest.
Pictures:	<a href="https://events.vtools.ieee.org/m/323181">https://events.vtools.ieee.org/m/323181</a>

### Event 3

Event date:	7-11 August 2022
Event location:	Engineering Training Center at the Jordanians Engineers Association
Event description:	Unmanned Aerial Vehicles Workshop
Number of audiences:	26
Target audience the (students, professionals):	Students and professionals
Even brief description:	General Fixed-wing Drone overview, Introduction to fixed-wing flight physics, Types of fixed-wing airframes, Basic fixed-wing airframes design fundamentals, Fixed-wing controls, flight basics, and flight modes, Fixed-wing Emergency procedures, Fixed-wing maintenance and inspection, Fixed-wing in surveillance, Homeland Security, Fixed-wing in Surveying, Search and Rescue, Commercial drone applications, Military drone applications Drone detection and tracking, Counter drone systems, General Multi-Rotor overview, Introduction to Multi-Rotor flight physics, Types of Multi-Rotor airframes, Basic Multi-rotor airframes design fundamentals, Multi-Rotor controls, flight basics, and flight modes, Multi-Rotor Emergency procedures, Multi-Rotor maintenance and inspection, Multi-Rotor in Surveying, Search and Rescue, Drone applications for Multi-Rotor, Defense methods against Fixed-wing, Drone Rules and Regulations Aerospace Classifications, Airports Classifications, Radio communication, Ground control station, Flight planning, Safety management procedures
Pictures:	<a href="https://events.vtools.ieee.org/m/321278">https://events.vtools.ieee.org/m/321278</a>

Event 4

Event date:	24 March 2022
Event location:	The Hashemite University
Event description:	The 2nd Robotics Competition (Ball Collector Challenge)
Number of audiences:	80
Target audience the (students, professionals):	Students
Even brief description:	This is the second version of the robotics competition (ball collector challenge). It will be held at the Hashemite University. The competition will be mainly for Mechatronics Engineering students and students from other departments are welcome.
Pictures:	<a href="https://events.vtools.ieee.org/m/304429">https://events.vtools.ieee.org/m/304429</a>

Event 5

Event date:	14-16 February 2022
Event location:	The Hashemite University
Event description:	Mindstorms Ev3 LEGO Robot Workshop
Number of audiences:	23
Target audience the (students, professionals):	Students
Even brief description:	In this workshop, students will learn how to build and program an Ev3 LEGO robot.
Pictures:	<a href="https://events.vtools.ieee.org/m/303882">https://events.vtools.ieee.org/m/303882</a>

**IEEE Jordan Joint Communication and Signal Processing Chapter**

Event 1

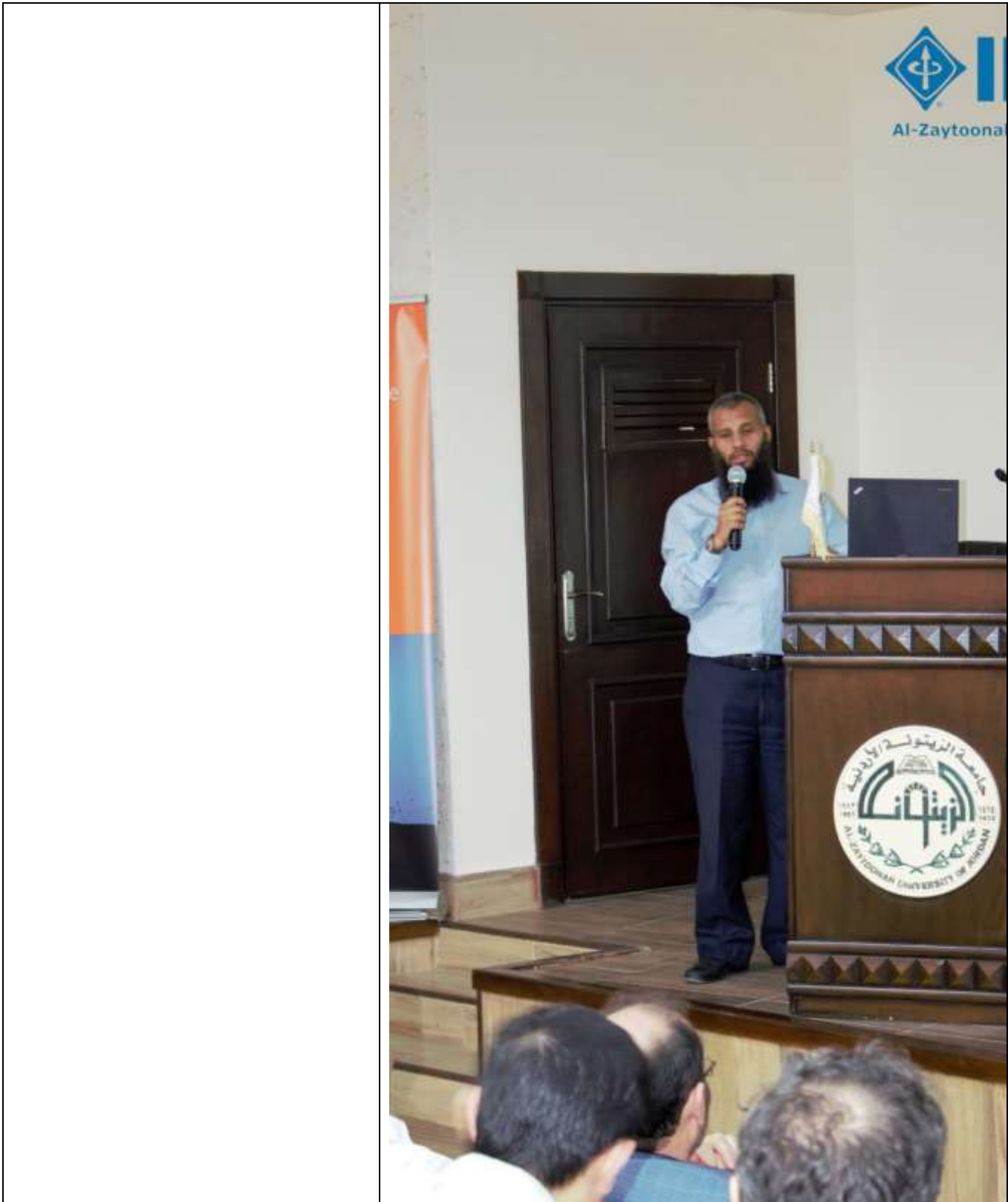
Event date:	1 June
Event location:	Al-Zaytoonah University of Jordan
Event description:	Technical Lecture
Number of audiences:	~20
Target audience the (students, professionals):	Students
Even brief description:	Technical lecture titled " Emerging Technologies in Communications" discussing 5G and IoT systems.

Pictures:









Event 2


Event date:	2 July 2022
Event description:	Promotional talk



Number of audiences:	~100
Target audience the (students, professionals):	Students, academics and professionals
Even brief description:	Promoting the ComSoc and SPS memberships
Pictures:	 

**Jordan Joint Chapter of the IEEE Computer and Computational Intelligence Societies**

Event 1: Nvidia Workshop: Fundamentals of Deep Learning

Event date:	30/5/2022
Event location:	The University of Jordan, School of Engineering
Event description:	<p>In this workshop, the participant will learn how deep learning works through hands-on exercises in computer vision and natural language processing. The participant will train deep learning models from scratch with learning tools and tricks to achieve highly accurate results. The participant will also learn to leverage freely available, state-of-the-art pre-trained models to save time and get your deep learning application up and running quickly. By participating in this workshop, the participant will:</p> <ul style="list-style-type: none"> <li>• Learn the fundamental techniques and tools required to train a deep learning model</li> <li>• Gain experience with common deep learning data types and model architectures</li> <li>• Enhance datasets through data augmentation to improve model accuracy</li> <li>• Leverage transfer learning between models to achieve efficient results with less data and computation</li> <li>• Build confidence to take on your own project with a modern deep learning framework</li> </ul> <p>Prerequisites: Familiarity with the basic programming concepts in Python such as functions, loops, dictionaries, and arrays.</p>
Number of audiences:	31
Target audience the (students, professionals):	IEEE CS/CIS Members and others
Even brief description:	See above
Pictures:	



**Event 2: IEEE CS-DeCAIR Workshop on AI: Hardware Acceleration - Part 1 of 2**

Event date:	30/5/2022
Event description:	<p>Agenda</p> <p>5:30 – 6:00 pm Registration and Welcome Coffee</p> <p>6:00 – 6:10 pm Welcome Note by Dr. Anas Al Majali (Secretary, Jordan Joint Chapter of the IEEE CS and CIS)</p> <p>6:10 – 6:25 pm IEEE CS Chapter and DeCAIR Project by Prof. Gheith Abandah (DeCAIR General Coordinator and Chapter)</p> <p>6:25 – 7:25 pm NVIDIA’s AI Ecosystem: How AI is Brought to Life by NVIDIA by Dr. Manal Jalloul</p> <p>7:30 – 8:30 pm Dinner</p>
Number of audiences:	22
Target audience the (students, professionals):	IEEE CS/CIS Members and others
Even brief description:	The main purpose of the event is to raise the awareness of AI related research and applications among the IEEE Computer Society members and the academic community. In addition to its informative nature, the proposed workshop would be a great opportunity for the CS members to interact, connect and cooperate.

Pictures:





## **Power & Energy society**

### Event 1

Event date:	13/4/2022
Event location:	The University of Jordan
Event description:	A session about smart grids and its wide applications.
Number of audiences:	12
Target audience the (students, professionals):	Grad students ad professionals
Event brief description:	The presenter, Dr. Sahban Alnasser, talked about different aspects of smart grid, especially the demand response, integration of renewables, and the control and communications of power systems.

### Event 2

Event date:	9/7/2022
Event location:	TUHH Hamburg-Germany
Event description:	A session about power system protection for distribution networks
Number of audiences:	18
Target audience the (students, professionals):	Grad students and professionals
Even brief description:	The presenter, Dr. Mohammed Hajahmed, discussed the protection related problems for the distribution networks in the presence of distributed generators and renewable systems.

### Event 3

Event date:	15/5/2022
Event location:	Nepco Amman south substation
Event description:	Scientific trip
Number of audiences:	30
Target audience the (students, professionals):	students
Even brief description:	Dr. Eyad Feilat, accompanied the students to Amman south substation where Nepco engineers described the substation components to the students.

### Event 4

Event date:	4/9/2022
Event location:	The University of Jordan
Event description:	Technical session
Number of audiences:	8
Target audience the (students, professionals):	Professionals
Even brief description:	Eng. Mohammed of SAM automation presented a session about monitoring and control of distribution network with high levels of renewables systems penetration.

**Industry**

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

**Answer**

We signed an MoU with myCommunication Inc. and we are in the process of signing another MoU with Jordan Engineering society.

**Diversity, Equity and Inclusion**

Highlight any diversity metrics (gender, age, religion, geographical, employment, etc.), new initiatives, best practices and progress around diversity and inclusion happening in your Section. Link to IEEE DEI statement [<link>](#).

**Answer**

We included two female members of the executive committee (Fatima AlZamel) and Maha AlMuasher to increase the female representation in the executive committee.

**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 our social media pages at:

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

<https://www.facebook.com/IEEEJO>

**Planned activities**

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

**Answer**

Oct to Dec 2022:

1. Site visit to JORAMCO by YP AG
2. ExCom YP and SB Chairs meeting
3. IEEE Day 2022
4. Xpand Conference
5. JSYP 2022
6. Manaseer Site visit by YP
7. MenaCOMM congress as part of the IEEE MenaComm conference that will take place on Dec 2022

**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**