Professional and Education Subcommittee   Conrad Attard PhD

Goals and Achievements

Brief Overview
1. PEA Speaker Program
   a. Nominations
   b. 8 Talks Delivered online
2. **R8 IEEE Robot Championship** – Malta
   This event requires a lot of work from different volunteers. We are attracting more volunteers at different levels both professionals and students. We have seen and increase interest from teachers and schools. Our aim is to increase our memberships thanks this initiative particularly from those that find the **R8 IEEE Robot Championship**
   a. To complete the memorandum of understand with R8 and IEEE Malta section a separate one between Malta Section and with University of Malta (Final stages)
   b. Design, Build and test the Arena (In progress)
   c. **R8 IEEE Robot Championship STEM** initiatives are planned to encourage registered roboteers to organise collaboration with their branch or Section our reach activities. Lessons plans will be design with various members and made available through the STEM portal. These are planned for the end of year once R8 IEEE Robot Championship will be organised. Recognition for best effort will be awarded. (On going)
   d. SAC collaboration Outreach with Student Branches participate in the Virtual Cross Sectional Congress on going) The Chair was invited to speak in STEM in one the online events organised by SAC. (On going)
   e. Studies conducted through Focus groups to understand the requirements to prepare for the event. Previous roboteers and professionals have been involved. (On going)
   f. An Adhoc team was established to focus on the different stages: (Completed)
   g. Their role includes various working groups depending on the phase of the project.
      1) Designing arena with support and advice from Marine Shipyards
      2) R8 **IEEE Robot Championship** regulations update.
      3) **R8 IEEE Robot Championship STEM program**
      4) Student Mentor and Section Support
      5) Online educational material
      6) Logistics and Championship Competition organise in Malta
      7) Awards and Recognition to all those contributed
      8) Funding and sponsorship
      9) MOU with different entities supporting the event.
   h. Soft skills including team building, project management and funding through the PEAsC speakers' program and YP collaboration are being planned.
   i. Various online webinars to help participants in preparing for the championships (Preparation stage)
   j. Student Mentor program is being established (In progress)

        k.   Working with the IEEE Computer Society Malta and IEEEE Malta Section (on going)

3. TryEngineering month involving as various sections in region 8 to use of the funds.
4. Marketing global and region educational and professional actives – FB and YouTube Channel. Improve the digital marketing strategy and design adequate material that help our audience understand what we are trying to communicate. (on going)
5. Empowering the Ambassadors recently recognised on STEM for R8- Collaborate and STEM Summit. (on going)
6. R8 IEEE Local Language Program
      a.   Delivering Speaker program in different languages (Ongoing)
      b.   New Ambassadors' initiative for Language Program (First quarter 2022)
7. Africa Pilot Program collaboration (on going)
8. Update of PEASC website. (on going)
9. STEM Portal collaboration with R8 PEASC. (on going)
10. Working group on digital communication with IEEE Section Education Outreach Committee Meeting. (on going)
11. Contributing to Entrepreneurship Week. (on going)
12. Launch Accelerator program (This month)
13. Webinar for Section Educational Activities Officers and or Ambassadors in collaboration with STEM portal. (on going)
14. Judges in IEEE region 8 Entrepreneurship initiative, Semi-Finalists for the IEEE Region8 Pitch Competition 2021. (Completed)
15. Online professional talk on digital health 20 April 2021. This event was organized with IEEE Computer society Malta. (Completed)
16. Regular online meetings with PEAsC committee members, a separate committee for EAB region Sections and Local language program R9 and R10. (on going)

Some highlights and details of our work.

Speaker Program

The committee Launched the Speakers Program *Call for Speaker 2021 2022* – nontechnical talks in the beginning of the year with the deadline of 26th March 2021. Speakers were either nominating themselves or were nominated by someone else using the link
The nominations were asked to provide details such as non-technical workshop experience, CV, affiliations, **language of delivery,** sample videos of their session.

Current list of speakers, identify the new speakers since last report

Speaker	Residing Country	Language of Delivery	Job	Roles in the job	Will to travel and conduct online session?
Mr. Mohammed Amin	Egypt	English and Arabic	Senior Account Manage @Nokia	Sales, Business Development and Account Manager	Will to travel and conduct online session
Mrs. Marwa Mohammed Mahmoud Amin	Egypt	English and Arabic	HR managing partner	HR consultant	Willing to travel
Mr. Sohaib Qamar Sheikh	United Kingdom	English	ICT Consultant	Technology Associate, Smart Building Systems	Will to travel and conduct online session
Prof. Saurabh Sinha	South Africa	English	University of Johannesburg	Deputy Vice-Chancellor: Research and Internationalisation	Will to travel and conduct online session
Prof. Ali Hessami	United Kingdom	English	R&D Director	VC IEEE Ethics Certification Programme	Only Online Sessions
Mr. Khaled Mokhtar	United Arab Emirates	English and Arabic	Emerging Technologies & Innovation Manager	Managing the Innovation Department in a Telco Operator	Willing to travel

The committee has done the below activities with the Speakers Program:

1. Updated the website to make the speakers program objectives, goals more appealing.

https://ieeer8.org/category/technical-activities/professional-and-educational-activities/programs-professional-and-educational-activities/pea-speakers-program/

2. Started the Speakers program to be bilingual – one in English and the second is the other preferred language of the speaker such as Arabic, Farsi etc.
3. Have selected around 6 speakers from a number of nominated speakers who applied for the speakers program
4. ***Professional and Educational talks delivered***
   We have arranged webinar by the speakers as per the below schedule:
   - Effective performance management system by Marwa Amin on 07th October 2021(Thursday) from 08:00 pm - 09:00 pm (Egypt Time,UTC+2) In English and 07th October 2021 (Thursday) from 09:30 pm-10:30 pm (Egypt Time, UTC+2) In Arabic
   - Technology's impact on business. By Mohammed Amin on 13th October 2021(Wednesday) from 08:00 pm - 09:00 pm (Egypt Time,UTC+2) In English and
     13th October 2021 (Wednesday) from 09:30 pm-10:30 pm (Egypt Time, UTC+2) In Arabic
   - Human Centric Design by Khaled Mokhtar on 15th October 2021(Friday) from 08:00 pm - 09:00 pm (UAE Time,UTC+4) In English and
     15th October 2021 (Friday) from 09:30 pm-10:30 pm (UAE Time, UTC+4) In Arabic
   - Ethical Assurance of Autonomous Intelligent Systems by Ali Hessami on 14th October 2021(Thursday) from 08:00 pm - 09:00 pm (UK Time,UTC+1) In English and
     15th October 2021 (Friday) from 10:00 am-11:00 am (UK Time, UTC+1) In Farsi
     Created posters and posts to inform our followers of the events and to request the speakers for talks in their sections. The talks will be uploaded on our YouTube channel and available to be viewed at different times.

You can apply for the speakers program here shorturl.at/mvJZ7

Topics

Speaker: Prof Saurabh Sinha

Leadership in the Fourth Industrial Revolution
Achieving Sustainable Development Goals - a Higher Education Perspective
A Paradigm Shift in Higher Education in the context of the Fourth Industrial Revolution

Speaker: Khaled Mokhtar

Program Management

Business Opportunities to 5G
Innovation Management Career

Speaker: Marwa Mohamed Mahmoud Amin

How to manage your team from home
build an effective organizational structure
Worker Adjustment and Retraining
How to reduce labour work without effect business cycle
Managing the work environment during change
Leading people through change management
effective incentive system linked to employees performance
Manage knowledge management inside your company and your team
effective performance management system

Speaker: Prof Ali G Hessami

IEEE Initiatives in Technology Ethics

Speaker: Sohaib Qamar Sheikh
Give yourself a head start - How Young Professionals can make an impact early in their
careers;
How to be an Effective Leader;
Healthy Buildings - Transforming workplaces in the post-covid era;
Digital Transformation - It's not all about technology.

Speaker: Mohamed Amin

Engaging with customers & Business networking.
Key tips for a successful career.
Technology's impact on business.

TRyEngineering month

- TISP Week is renamed to TryEngineering Month and it is shared to the IEEE STEM Portal
here: https://stemportal-tryengineering.ieee.org/programs/detail/cff702a6-8cc8-4154-
a303-cf355cd422a7

- TryEngineering Month call for 2021 is already released since June 2021 and promoted to
social media.

- TryEngineering Month website is created https://tryengineering-month.ieee.org/

Local Language program

As part of the R8 local language program, Dr Nizar Rokbani will delivered a session virtual meeting on Working with IEEE ethics on the 26/08/2021 in collaboration with the Student branch.

4 Webinars have been organized virtually as part of the speak programs in 3 in Arabic and one in Farsi.

Pilot Pre University program

Title: Life as a Fairytale

PEASC co-funded the pilot event of the program named "Life as a fairytale" which was held in Arta, Greece on the 23rd of October (https://events.vtools.ieee.org/m/282110).
Life as a fairytale program was created by the Special Testing Group of PECC/STEM Portal thus EA provides $500 for it's pilot event and it is submitted in the STEM Portal for evaluation.

It is expected to be published by the end of the year in STEM Portal and it can then implemented by all OUs globally.

23 pre-University students and 10 parents participated in the event and the evaluation ratings in pedagogical impact, fun factor and IEEE Branding were extremely high.

Challenges

Problems during the webinar:
- Webex access for the webinar
- Recordings of the session are still not received
- Broadcasting of the Webinars could be done better with the help of E-Notice sent to all Region 8 Members
- COVID Related challenges for traveling.
- Random support and commitment from committee members. This is probably due to covid and not meeting up face to face.