



IEEE MALAYSIA SECTION

2022 NEWSLETTER

APRIL - JUNE
EDITION

**“ADVANCING TECHNOLOGY
FOR
HUMANITY”**

*TALENT IS LIKE ELECTRICITY.
WE DON'T UNDERSTAND ELECTRICITY,
BUT WE USE IT.*

- MAY ANGELOU



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<https://twitter.com/ieeemalaysia?lang=en>

CONGRATULATIONS

TO

**IEEE MALAYSIA
SECTION**

FOR RECEIVING THE

**2022 IEEE MGA
OUTSTANDING LARGE
SECTION AWARD**

**IEEE**
MALAYSIA SECTION



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MESSAGE FROM THE NEWSLETTER EDITOR



It's our pleasure to release a Q2 edition of 2022 IEEE Malaysia Section newsletter. This edition covers activities which have been conducted between the month of April to June, 2022. In this issue, we highlighted all achievements from our members throughout this year.

Section also received reporting articles from Affinity Group, Subsections, 14 Technical Chapters and 4 Student Branches. On behalf of IEEE Malaysia Section, I would like to thank all who have contributed the reporting articles to this edition. I hope that you find this newsletter informative and useful. Looking forward to your continued support in the newsletter activities. If you have any suggestions or comments, you can contact me at nurashida606@uitm.edu.my. Thank you and kind regards.

Nur Ashida Salim
Editor

IEEE Malaysia Newsletter 2021- 2022

Congratulations

Mohd Hafiz Ismail

IEEE Education Society Malaysia Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

60s MEMS: MEMS Sensors and Actuators for Campus Sustainability

worth

USD 234





Congratulations

DR HASMAH MANSOR

IEEE Instrumentation & Measurement Society Malaysia Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

SCITECH - Do Wonders with STEM

worth

USD 200





Congratulations

ALIZA AINI MD RALIB

IEEE EDS Malaysia Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

**Exploring STEM electrochemistry and sustainability
from the environment concept for indigenous
children at ASDAF**

worth

USD 200





Congratulations

SARAH YASMIN MOHAMAD

IEEE AP/MTT/EMC Malaysia Joint Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

Antenna: How does it work?

worth

USD 197





Congratulations

WOOI CHIN LEONG

IEEE DIES Malaysia Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

**Lightning Safety and Protection Knowledge Transfer
to Titi Tinggi Village Community at Padang Besar,
Perlis, Malaysia**

worth

USD 150





Congratulations

DR ROSMINAZUIN BINTI AB RAHIM

IEEE EDS Malaysia Chapter

for receiving the

2022 IEEE R10 Educational Activities Funding

for project :

Let's Imagineering @ STEM Fun Club



worth

USD 575





A BIG CONGRATULATIONS TO

MOHD HAFIZ ISMAIL

(IEEE Education Society Malaysia Chapter)

FOR RECEIVING IEEE EAB PECC STEM PORTAL GRANT, MOSTI MALAYSIA FUND AND IEEE R10 EDUCATIONAL ACTIVITIES FUNDS

1. BINA SEMULA RBT (USD2000 - IEEE EAB)
2. NATIONAL SCIENCE WEEK 2022 MINECRAFT CHALLENGE (RM35000 - MOSTI)
3. 60S MEMS: MEMS SENSORS AND ACTUATORS FOR CAMPUS SUSTAINABILITY (USD234 - IEEE R10 EA NEW INNOVATION CHALLENGE)
4. DEVELOPMENT OF WORKSHOP MODULE FOR RBT (USD200 - IEEE R10 EA REACHING LOCAL)
5. NATIONAL SCIENCE WEEK 2022 MINECRAFT CHALLENGE (USD150 - IEEE R10 EA TRYENGINEERING & STEM)
6. TEACHER-IN-SERVICE PROGRAM @ NATIONAL SCIENCE WEEK 2022 (USD150 - IEEE R10 EA TRYENGINEERING & STEM)



Congratulations

IR. TS. DR. MAIZATUL ZOLKAPLI

IEEE ELECTRON DEVICE SOCIETY (EDS) MALAYSIA CHAPTER

for receiving the

IEEE Electron Devices Society (EDS) grant

for project :

STEAM-Based Education for Special Needs Children in
Malaysia

worth

USD 15 000



IEEE Young Professionals Malaysia

Reported by Aznilinda Zainuddin (aznilinda.z.my@ieee.org)

IEEE MEMBERSHIP TALK AT UNIVERSITI MALAYA

IEEE UM SB in collaboration with IEEE PES Malaysia Chapter and IEEE YP Malaysia has organized a free webinar for the students to learn about the benefits of IEEE membership. The event was taken place on Friday, 1st April 2022 at Universiti Malaya (UM).

Another session on the IEEE membership in UM is during the 5th IEEE PES DAY 2022 held on 6th May 2022, Friday via Google Meet. Both session was given by Dr. Haroon Rashid, Chair of IEEE Young Professional Malaysia).

IEEE MEMBERSHIP BENEFITS

1st April 2022
15:30 - 16:30

Dr. Haroon Rashid
Chair, IEEE YP Malaysia

IEEE UM SB in collaboration with IEEE PES Malaysia Chapter and IEEE YP Malaysia is organizing a Free Webinar on IEEE Membership Benefits for UM students

Registration :
<https://tinyurl.com/3k8bn8k2>

Join us on Friday 1st April 2022, and get a chance to Win amazing prizes/takeaways

UNIVERSITI MALAYA

IEEE young professionals | IEEE UM | IEEE PES Power & Energy Society

KLIEEE MALAYSIA SUBSECTION | **IEEE young professionals MALAYSIA** | **IEEE UM** | **IEEE young professionals POWER & ENERGY SOCIETY** | **IEEE PES Day 2022** Powering a Sustainable Future

Webinar
Impact of Automation and Control System of Building & Industry on Energy Conservation

Sharing Session
IEEE Membership Benefits

Guest speaker:
Mr. Muhammad Akhtar
Principle Scientist working in an Strategic Organization
Government of Pakistan
Lead Trainer Cyber Security NAVTECH
Lecturer UIIT Arid University (Visiting)

Guest speaker:
Dr. Haroon Rashid
Chair, IEEE Young Professionals Malaysia
Chair, IEEE Consultants Network Malaysia
Regional Lead, IEEE PES Day 2022
Regional Representative,
IEEE PES Young Professionals

bit.ly/PES_6MAY

06 May 2022 (Friday) | 06:00 PM (GMT + 8) Malaysia

f t i g /ieeepesday

WORKSHOP ON MENDELEY AS REFERENCE MANAGER

ORGANIZED BY: **IEEE** | **IEEE young professionals** | **IEEE RAS**

MENDELEY:
AN ESSENTIAL TOOL FOR RESEARCHERS

TUESDAY | **TIME**
12 APRIL 2022 | 2:30PM - 4:00PM

VENUE
MICROSOFT TEAMS

*E-CERTIFICATES WILL BE GIVEN

REGISTER NOW

DR. HAROON RASHID
FOUNDER & DIRECTOR, KPETOPIA ACADEMY
RESEARCH FELLOW, UNIVERSITI KEBANGSAAN MALAYSIA

[HTTPS://FORMS.OFFICE.COM/R/60HUR2B32J](https://forms.office.com/r/60HUR2B32J)

IEEE UTP SB, in collaboration with IEEE YP Malaysia and IEEE RAS Malaysia, has organized a workshop on the reference management application; Mendeley to highlight and explain its functionality most of the participants was postgraduate students.

With Mendeley Reference Manager, user can store, organize, and search for all of the references within a single library. The speaker was Dr. Haroon Rashid (Chair, IEEE Young Professional Malaysia) and the event took place on April 12, 2022, from 2:30 to 4:00 pm via the Microsoft Teams platform.



IEEE Malaysia Section IEEE Malaysia Kuala Lumpur Subsection

Reported by: Mohd Ibrahim Shapiai; Khairul Zahreen Mohd Arof; Haslina Md Sarkan
(md_ibrahim83@utm.my; khairulzahreen@gmail.com; haslinams@utm.my)

WEBINAR – INDUSTRIAL TALK 1

Kuala Lumpur – April 21st, 2022. Mr. Jacob Thomas, the Business Director of Novorient Sdn Bhd in collaboration with IEEE Malaysia Kuala Lumpur Subsection, delivered a talk on Artificial Intelligence and Deep Learning entitled “Driving Transformation in the AI-Era.”

The one-hour talk was conducted online, moderated by AP. Ts. Dr. Mohd Ibrahim Shapiai and was attended by 21 participants, of which 7 were IEEE members.



WEBINAR – INDUSTRIAL TALK 2

On 25th May 2022, the IEEE Malaysia Kuala Lumpur Subsection and Centre for Artificial Intelligence & Robotics (CAIRO) invited Dr. Hairi Zamzuri, the Managing Director of eMoovit Technology Sdn. Bhd. for a sharing session on “Autonomous Driving Landscape in Malaysia.”

The online talk was moderated by AP. Ts. Dr. Mohd Ibrahim Shapiai and was attended by 34 participants, of which 18 were non-IEEE members.



STEM SUMMER CAMP 2022

During the recent school holidays, from 7th until 9th June 2022, the IEEE Malaysia Kuala Lumpur Subsection organized a STEM Summer Camp. The camp took place at Universiti Teknologi Malaysia UTMKL campus. The collaborators for this program were Perbadanan Putrajaya, The Institution of Engineers Malaysia (IEM), Arus Infiniti Sdn Bhd, Estiva Home Malaysia, and HIAS Reka. The program was funded by the IEEE Pre-University STEM Portal Grant Program. The targeted group was children aged between 13-17. Twenty-five of them joined the program free of charge. The 3-day program included talks and hands-on work on Wetland ecosystems, IoT Smart Home systems, Off-Grid Solar systems, and Ergonomic Posture Design. The participants were also taken on a tour around the UTMKL campus to experience the university environment.

HUMANITARIAN ACTIVITY



A humanitarian activity was held by IEEE Malaysia Kuala Lumpur Subsection at the Urban Farm PPR Seri Semarak on 11th June 2022. Also participating were the Setiawangsa MP, YB Nik Nazmi, members from IEM, Jabatan Kebajikan Masyarakat (JKM) officers and young offenders, IEEE members and PPR residents. The urban farming activities at the PPR include the implementation of hydroponics for fertigation. The activities were supported by IoT Devices for plant monitoring, a solar system for lighting, and 360 cameras for security.



IEEE MALAYSIA SECTION IEEE Sabah Subsection

Reported by: IEEE Student Branch (UMS)



2022 IEEE-UMS Electrical & Electronic Engineering Project Challenges

IEEE Student Branch (UMS) has organised 2022 IEEE-UMS Electrical & Electronic Engineering Project Challenges on 22nd-23rd June 2022 at the foyer of Faculty of Engineering, Universiti Malaysia Sabah. This event provides a platform for 3rd and 4th year students to present their Integrated Design Projects (IDP) and Final Year Projects (FYP) respectively to industry visitors, alumni, lecturers, engineering students and secondary school students. The event was participated by 247 attendees.

Industry Talk: Electrical Practice

IEEE Student Branch (UMS) invited Ir. Yuzrian Efran Yunus, Principal of Prestigious Konsult and Ir. Malek Tan Hak Vui, Director of Advanced Power Solutions (Borneo) Sdn. Bhd. to deliver Electrical Practice talk on 22nd June 2022.

Ir. Yuzrian has given talk on the layout of a 33/11kV distribution substation, while Ir. Malek has shared his experience in power transmission systems.



IEEE Student Branch (UMS)



IEEE Student Branch (UMS)



IEEE Student Branch (UMS)

MyEEE Open Day

IEEE Student Branch (UMS) organised MyEEE Open Day on 23rd June 2022 to promote Electrical & Electronic Engineering (EEE) to secondary schools.

A total of 65 delegates from Kolej Tingkatan Enam Kota Kinabalu and Sekolah Menengah All Saints had paid a visit to Faculty of Engineering, Universiti Malaysia Sabah.



IEEE Student Branch (UMS)



IEEE Student Branch (UMS)



IEEE Student Branch (UMS)

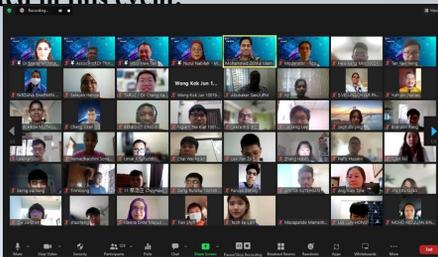
Chapter Name: IEEE Robotics and Automation Chapter (RAS)

Reported by: Assistant Professor Mohamed Khan(mohamedkhan@ucsiuniversity.edu.my)

Webinar on Home Automation and Internet of Things (IoT) Forum

Webinar venue: MS Team -UPM &UCSI University, MMU,IEEEHKN,Malaysia. 21 May 2022.

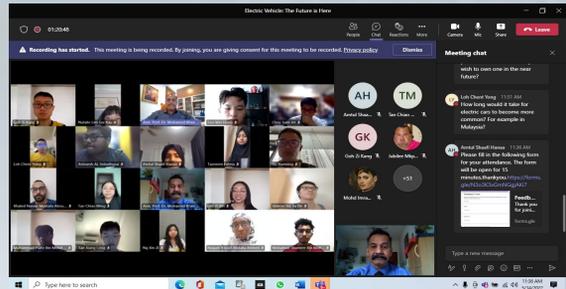
The study predicts there will be around fifty billion IoT devices connected by 2030. While the future of IoT is limitless, there are some concerns from the public towards its security, reliability, and the impact on the job market. Hence, Asst. Prof. Dr. Mastaneh Mokayef from the Faculty of Engineering and Built environment, UCSI University, Assoc. Prof. Dr. Thinagaran Perumal from the Faculty of Computer Science and Information Technology, University Putra Malaysia, and Dr. Tan Wooi Haw from the Faculty of Engineering, Multimedia University have been invited as speakers to share some insights from their expertise in the field of Wireless Communication, Smart Home IoT, and Machine Learning. 123 students have participated in this event.



Webinar on EV Batteries – green energy storage system

Webinar venue: MS Team -MMU&UCSI University,Malaysia. 14 May 2022.

The event started with a welcoming speech by the moderator Dr. Mohamed Khan at 10.30 am. Dr. Khan introduced the speaker to the audience and also briefed the topic of interest. After few years the batteries used in EV degrade 70 to 80% and are eventually replaced. Reusing discarded batteries for further applications is called second life EV batteries. This talk was focused on how one can use the discarded batteries in other applications. Dr. Gobbi, Asso Prof in MMU was the main speaker and Dr. Mohamed Khan, Assis prof, UCSI was the moderator. The talk was attended by more than 60 participants, mostly degree engineering students.



Webinar on AI Applications in Industry

Webinar venue: MS Team -UCSI University,UNITEN Malaysia. 25 June 2022.

A seminar on AI was organized by IEEE UCSI Student branch and IEEE HKN, IEEE RAS Malaysia chapter. Dr. Zafri Bhaharudin, Senior Lecturer from UNITEN shared his knowledge to the audience on Artificial Intelligence and some of the projects he is handling with the concept of Machine learning algorithms. The highlight of the event is AI Impact on Industries and society. More than 30 students from various engineering departments participated in this event and gained knowledge on AI and its applications in Industry and non-industry. Dr. Mohamed Khan moderated this event.



Webinar on Robotics in Healthcare

Webinar venue: MS Team -UCSI University,NITTTR India. 29 April 2022. The event started at 10am IST by a welcoming speech by the event Co Ordinator Dr. Kulanthaivel, Head, Center for International affairs, National Institute of Technical Teachers Training and Research, Ministry of education, Government of India, Chennai, India. During his speech he introduced to the audience the main speaker Dr. M.K.A. Ahamed Khan who is currently working as Assistant Professor, in UCSI University, Malaysia about his profile and the topic of interest. Almost 200 participants were present





IEEE Instrumentation & Measurement Society (IEEE IMS)

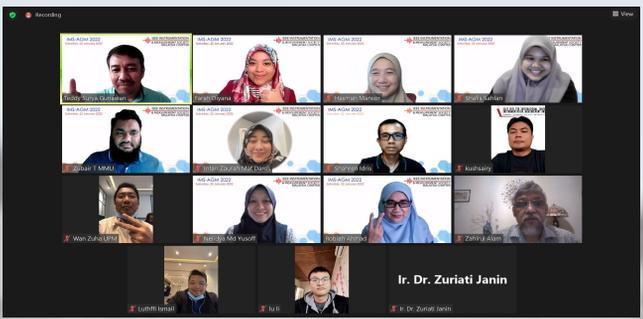
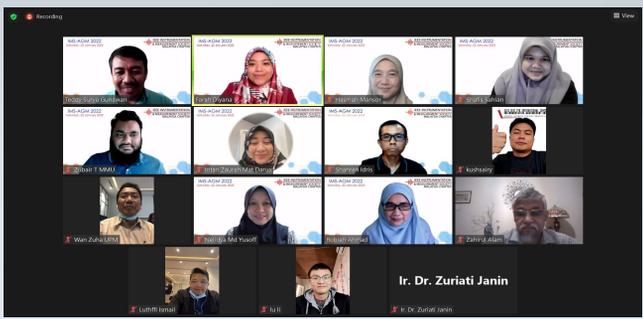
Reported by: Farah Diyana binti Abdul Rahman (farahdy@iium.edu.my)

IEEE IMS Malaysia Chapter Annual General Meeting 2022

IEEE IMS AGM was conducted on Saturday, 22nd January 2022, 9.00 am virtually via Zoom platform. A total of 16 members which consists of ten senior members, five members and one graduate student member attended the IMS AGM. This year, there was no election of new executive committee since the motion of two years candidature was agreed in the previous AGM. The session started with the welcoming speech by IMS chair, Prof. Dr. Teddy Surya Gunawan followed by an acceptance of the 2021 AGM minutes of meeting.

Then, the annual report and activities report of year 2021 was presented. Several suggestions were posted by members which includes technical talk from MathWorks. Discussion on continuing our proposed of yearly activities were also conducted. Some of the activities are for IMS to organize the 2nd International Symposium on Instrumentation and Measurement (ISIM) 2021, the 8th ICSIMA 2022 in Melaka, FYP sponsorships and charity program.

Next, the treasurer, Dr Hasmah presented the financial report of year 2021 ending on 31st December 2021. All reports was accepted by member. Afterwards, the session is open for any other business and welcome for sharing and suggestion by IMS members. AGM end at 10.15 am with a photo session.



Attendees of the 2022 AGM of IEEE IMS Malaysia Chapter

2022 IEEE IMS Malaysia Chapter Ex-Comm.

The list of Executive Committee and their information for 2022/2023 session is listed in the table below.

No	Name	Post	Email	Affiliation
1	Teddy Surya Gunawan	Chair	tsgunawan@gmail.com	IUUM
2	Kushsairy Abdul Kadir	Vice-Chair	kushsairy@unikl.edu.my	Unikl
3	Robiah Ahmad	Past Chair	robiahahmad@utm.my	UTM
4	Farah Diyana Abdul Rahman	Secretary	farahdy@iium.edu.my	IUUM
5	Hasmah Mansor	Treasurer	hasmahm@iium.edu.my	IUUM
6	Intan Zaurah Mat Darus	Excomm	intan@utm.my	UNIMAS
7	Wan Zuha Wan Hasan	Excomm	wanzuha@upm.edu.my	UPM
8	Annisajamali	Excomm	annisajamali@gmail.com	UNIMAS
9	Nelidya Md. Yusoff	Excomm	nelidya.kl@utm.my	UTM

IMS Malaysia Chapter Activities Planning 2022

IEEE IMS Malaysia Chapter had the first meeting to strategize the activities planning for year 2022, with a focus on ICSIMA 2022. The meeting was held on 16th April 2022 at Hatten Hotel, Melaka. Seven executive committee members joined the two hours meeting with productive discussion. The purpose of the location of the meeting was also to scout for the location of ICSIMA 2022 as well as to have an iftar gathering among the members as well as the whole families. Previously, we had a meeting at Chef Wan's café on 16th December 2021, for our final meeting for 2021. These photos below are some of the final captures during the meetings.





IEEE Oceanic Engineering Society

Reported by: Mohd Shahrieel Mohd Aras, Zainah Md Zain

IEEE OES TECHNICAL TALK



Date: 19 May 2022 (Thursday)
Time: 10:00 AM
Page: IEEE Oceanic Engineering Society – Malaysia Chapter

"MULTI-OBJECT COLLISION AVOIDANCE FOR A RIVERINE AUTONOMOUS SURFACE VEHICLE"

By:

Assoc. Prof. Ir. Dr. Rosmiwati Mohd Mokhtar
School of Electrical and Electronic Engineering
Universiti Sains Malaysia (USM)



IEEE OES Malaysia Chapter organized for the 3rd Technical Talk by Associate Professor Ir. Dr. Rosmiwati binti Mohd Mokhtar from Universiti Sains Malaysia (USM) on 19 May 2022. This technical talk via Facebook live at IEEE OES Malaysia Chapter page. The technical talk is about Multi-object Collision Avoidance for a Riverine Autonomous Surface Vehicle (ASV).



The IEEE 9th International Conference on Underwater System Technology: Theory and Applications (USYS'22) is the hybrid conference will be held on the 5th to 6th December 2022 in collaboration with International Islamic University of Malaysia and Northwestern Polytechnical University. The discussion has been held on 24 May 2022 with three parties; IEEE OES committee represented by Chair Assoc Prof Dr Mohd Shahrieel Mohd Aras, Secretary Dr Zainah Md Zain and Treasurer Assoc Prof Dr Zulkifli Zainal Abidin, International Islamic University of Malaysia represented by Dr Ahmad Imran bin Ibrahim and Dr Khairul Azami Sidek while Northwestern Polytechnical University represented by Prof Jian Gao, Prof Huiping Li, and Prof Xingguang Peng.

The 9th International Conference on Underwater Systems Technology: Theory and Applications

5 & 6 December 2022
Kuala Lumpur, Malaysia

Welcome to the IEEE 9th International Conference on Underwater System Technology: Theory and Applications (USYS'22). The hybrid conference will be held in collaboration with International Islamic University of Malaysia and Northwestern Polytechnical University on the 5th to 6th December 2022. This conference aims to provide a platform for researchers, scientists, engineers, academicians, and industrial professionals from around the world to share, discuss, and disseminate their current research and development activities and experiences in the field of underwater system technology, including relevant theories and applications. The 9th IEEE USYS 2022 focuses on developing new engineering strategies for the preservation of the oceans' eco-system, as well as providing a specialized forum for discussing the future of underwater system technology.

TOPICS

USYS'22 is seeking original, unpublished submissions for oral presentation. The topics of interest are, but not limited to:

- | | |
|--|--|
| <p>Underwater Vehicle Technology</p> <ul style="list-style-type: none"> - Underwater Vehicle, ROV, AUV, Hybrid - AUVs Docking and Retrieval System - Underwater Vehicle for Shallow Water - Underwater Vehicle for Deep Water <p>Artificial Intelligent Subsea System</p> <ul style="list-style-type: none"> - Vision System for Underwater Application - Adaptive Path Planning & Navigation for AUV - Advanced Underwater Object Ranging & Tracking - Intelligent Navigation Guidance & Obstacle Avoidance <p>Subsea Applications</p> <ul style="list-style-type: none"> Underwater Communication System Non-acoustic Sensors for Marine Environment Renewable Energy Sources - Electric Propulsion System - Battery Storage System <p>Control Systems</p> <ul style="list-style-type: none"> - Underwater Robotic Arm - Intelligent Task-Oriented Control Architecture - Simultaneous Localization and Mapping (SLAM) | <p>Ocean Science and Engineering</p> <ul style="list-style-type: none"> - Ocean Structure - Marine Biology - Fishery Technology - Climate Change <p>Underwater Acoustics</p> <ul style="list-style-type: none"> - Imaging Techniques - Sensors and Instrumentation - MEMS-based Systems - Acoustic-based Communication <p>Industrial Applications</p> <ul style="list-style-type: none"> - Underwater Inspection and Mapping - Pipeline Tracking & Maintenance - Deep-water Structure <p>Software Engineering and Simulation</p> <ul style="list-style-type: none"> Virtual Collaborative Simulation Software Predictive Virtual Environment Seabed Mapping Techniques |
|--|--|

CONFERENCE FEES

Participant	International F2F/Virtual (After 19 th Nov)	Local F2F (After 19 th Nov)	Local Virtual (After 19 th Nov)
IEEE Regular Member	USD 148 (USD 159)	RM650 (RM 700)	RM600 (RM 700)
Non-IEEE Member	USD 170 (USD 182)	RM750 (RM 800)	RM650 (RM800)
IEEE Student	USD 136 (USD 148)	RM600 (RM 650)	RM 500.00 (RM 650)
Non-IEEE Student	USD 159 (USD 170)	RM700 (RM 750)	RM600.00 (RM 750)

SUBMISSION PROCEDURE

Papers must be written in English and should describe original work, which has not been published or being reviewed for other conferences. Please submit the full-paper in .doc or .pdf format limited to six pages. Accepted paper will be sent to IEEE Xplore for indexing (subject to fulfilling the IEEE regulation).

IEEE Malaysia Communication Society and Vehicular Technology Joint Chapter

Reported by: Mohamad Yusoff Alias (MMU), Mardeni Roslee (MMU) & Nurul Mu'azzah Abdul Latiff (UTM)

Iftar for Orphans at Rumah Amal Firdaus
Shah Alam – 4 & 11 April 2022/2 & 9
Ramadhan 1443H



MyComVT representative distributed food packs for iftar to the orphans at Rumah Amal Firdaus in Shah Alam and Rumah Nur Sakinah

Webinar: “Tips for writing a paper for IEEE journals” – 18 April 2022



Webinar given by Dr. Lee Ying Loong, Assistant Professor, Lee Kong Chian Faculty of Engineering and Science, Universiti Tunku Abdul Rahman, Malaysia.

Technical Talk titled "A2G Series Workshop: The Future of Mobile Communications Beyond 5G and 6G" – 12 May 2022



Technical Talk titled "A2G Series Workshop: The Future of Mobile Communications Beyond 5G and 6G", co-organized by IEEE Curtin Student Branch, IEEE MMU Student Branch, IEEE Malaysia ComSoc/VTS Joint Chapter, IET MMU Student Section and Faculty of Engineering Multimedia University.

Hanson Urban Camp for School Teachers
26 May 2022



On 26 May 2022, IEEE Comsoc has co-organized a Hanson Urban Camp at Universiti Teknologi Malaysia. The aim is to introduce the theoretical concept of STEM through robotics workshops to teachers. This is a 4-day programme in collaboration with the IET on Campus UTM, Vocational Education and Technical Division (BPTV) and the Johor State Education Department (JPNJ). The expected outcome is trained teachers and facilitators who can run the same program to the students at their respective schools.

IEEE Malaysia Communication Society and Vehicular Technology Joint Chapter

Reported by: Mardeni Bin Roslee (MMU), Nurul Mu'azzah Abdul Latiff (UTM)

Knowledge Sharing Program in Conjunction with School Holidays – 7-10 June 2022

PROGRAM PERKONGSIAN ILMU SEMPENA CUTI SEKOLAH! (SIRI 2 - 2022)

7-10 Jun 2022
10:32 pagi – 11:30 pagi

Tayangkan Perdana di YouTube
<http://shorturl.at/dhsGX>

Selasa 7 Jun 2022
Topik: Bina Sistem Rangkaian Sensor Tanpa Wayar untuk Aplikasi IoT dengan ESPNOW
Oleh Aiman Akid, ADROIT Solution

© Sijil kehadiran akan diberikan untuk PELAJAR SEKOLAH RENDAH DAN SEKOLAH MENENGAH SAJAJA untuk setiap sesi. Sijil akan dihantar melalui email sebelum 30 JUN 2022. Sebarang permohonan selain di atas tidak dapat ditunjukkan.

Dibawakan khas oleh
IEEE
Cmsoc VTS

PROGRAM PERKONGSIAN ILMU SEMPENA CUTI SEKOLAH! (SIRI 2 - 2022)

7-10 Jun 2022
10:32 pagi – 11:30 pagi

Tayangkan Perdana di YouTube
<http://shorturl.at/dhsGX>

Khamis 9 Jun 2022
Topik: Komunikasi D2D
Oleh Prof. Madya Ts. Dr. Mardeni bin Roslee, Fakulti Kejuruteraan, Multimedia University

© Sijil kehadiran akan diberikan untuk PELAJAR SEKOLAH RENDAH DAN SEKOLAH MENENGAH SAJAJA untuk setiap sesi. Sijil akan dihantar melalui email sebelum 30 JUN 2022. Sebarang permohonan selain di atas tidak dapat ditunjukkan.

Dibawakan khas oleh
IEEE
Cmsoc VTS

PROGRAM PERKONGSIAN ILMU SEMPENA CUTI SEKOLAH! (SIRI 2 - 2022)

7-10 Jun 2022
10:32 pagi – 11:30 pagi

Tayangkan Perdana di YouTube
<http://shorturl.at/dhsGX>

Rabu 8 Jun 2022
Topik: Teknologi Fiber Optik dan Kegunaannya
Oleh Dr. Siti Azlida Binti Ibrahim @ Ghazali, Fakulti Kejuruteraan, Multimedia University

© Sijil kehadiran akan diberikan untuk PELAJAR SEKOLAH RENDAH DAN SEKOLAH MENENGAH SAJAJA untuk setiap sesi. Sijil akan dihantar melalui email sebelum 30 JUN 2022. Sebarang permohonan selain di atas tidak dapat ditunjukkan.

Dibawakan khas oleh
IEEE
Cmsoc VTS

On 7-10 June 2022, IEEE Cmsoc has organized a Knowledge Sharing Program in Conjunction with School Holidays (Program Perkongsian Ilmu Sempena Cuti Sekolah) (SIRI 2 2022). The participants were primary and secondary school students around Malaysia and conducted virtually. There were 3 speakers: Aiman Akid, Dr Siti Azlida and Mardeni. From the program, the students have learned emerging technologies related with wireless communication and many more.

Final Year Project students Exhibition/Competition 21 June 2022



On 21 June 2022, IEEE CmsocVTS has participated in the final year project seminar presentation at Electrical and Computer Engineering Department, Kulliyah Of Engineering, International Islamic University Malaysia (IUI). The Communication and the Winner is Muhammad Haikal Bin Mohammad Rizuan with project entitled Reconfiguring 4G towards 5G: A Vienna 5G Link Level Investigation. IEEE CmsocVTS is represented by Mardeni Bin Roslee.



Besides, on 22 June 2022, IEEE CmsocVTS has also participated in Final Year Project Exhibition/Competition at Electrical and Electronic Engineering Department, Fakulti Kejuruteraan dan Alam Bina Universiti Sains Islam Malaysia which IEEE CmsocVTS is represented by Khairil Anuar while at Faculty of Engineering, Universiti Malaysia, IEEE CmsocVTS is represented by Assoc.Prof.Dr.Mohd Fais Mansor.

IEEE Malaysia Communication Society and Vehicular Technology Joint Chapter
Reported by: Nur Idora Abdul Razak (UiTM)

World Telecommunications and Information Society Day (WTISD 2022)
17 May 2022 | Cyberview Resort and Spa, Cyberjaya



On 17 May 2022, IEEE Malaysia Communication Society/Vehicular Technology Society Joint Chapter (MyCommVT) and Malaysian Technical Standards Forum Bhd (MTSFB) jointly organized a high-tea networking event to celebrate World Telecommunications and Information Society Day at Cyberview Resort and Spa, Cyberjaya. A memorandum of understanding (MoU) was signed between IEEE Malaysia Section and MTSFB to strengthen the collaboration between both parties to mutually share knowledge and expertise in communications and multimedia industry. The event was attended by Dr Ahmad Nasruddin 'Atiqullah Fakhruallah, Head of Technology and Standards of Malaysian Communications and Multimedia Commission (MCMC), who witnessed the signing ceremonies. Also present were Pn Zaleha Abu Bakar, General Manager of MTSFB, Dr Md Pauzi Abdullah, Chair of the IEEE Malaysia Section and joined virtually by Pamela Kumar, Director-General of Telecommunications Standards Development Society, India (TSDSI). During the celebrations, an international forum themed "Digital Technologies for Everyone" was also organized with participations from all three organisations. MyCommVT also celebrated their 30th anniversary and presented the awards to the best volunteer from the industry and academia, and also a best paper award.





IEEE Malaysia Communication Society and Vehicular Technology Joint Chapter

Reported by: Mohamad Yusoff Alias (MMU)

2022 IEEE ComSoc School Series Kuala Lumpur Virtual Event

Theme: Artificial Intelligence and Its Impact on Communications
20-23 June 2022 | Virtual

IEEE Malaysia ComSoc/VTS Joint Chapter has successfully organized the 2022 IEEE ComSoc School Series Kuala Lumpur. The 4-day virtual event featured lectures focusing on topics addressing the cutting-edge trends within the theme of "Artificial Intelligence and Its Impact on Communications." The program comprised of 12 talks and 2 hands-on sessions by speakers coming from 8 different countries including 7 ComSoc Distinguished Lecturer Program (DLP). The event was free for IEEE ComSoc Student members. A total of 172 participants coming from all over the world registered for the event. The event was hosted using the virtual platform Airmeeet and all recordings will be made available to all IEEE members on IEEE.Tv later.

Day 1:

- Topic 1: "Fundamentals of Artificial Intelligence" by Prof. Alvin Yau Kok Lim, UTAR, Malaysia
- Topic 2: "Artificial Intelligence: Past, Present and Future" by Assoc. Prof. Dr. Tan Chee Wei, City University, Hong Kong
- Topic 3: "AI based Communications in 6G" by Prof. Dr. Sinem Coleri, Koc University, Turkey
- Topic 4: "Efficient and Robust Deep Reinforcement Learning" by Dr. Longbo Huang, Tsinghua University, Beijing, China



Day 2:

- Topic 5: "Machine Learning in Communications" by Assoc. Prof. Dr. Chow Chee Onn, UM, Malaysia
- Topic 6: "Deep Learning/Machine Learning in 6G Network Optimization" by Prof. Haijun Zhang, University of Science and Technology, Beijing, China
- Hands-on Workshop: "Using AI Available Toolboxes in MATLAB" by Intan Nuralisa Mat Dali, Customer Success Engineer and Ms. Kantika Wongkasem, Technical Assistant, TechSource Systems, Malaysia/Singapore



Opening ceremony by Prof. Xuemin (Sherman) Shen from University of Waterloo, Canada, current President of IEEE ComSoc and hosted by Tara McNally from ComSoc Headquarters.

Day 3:

- Topic 7: "Quantum Communication" by Assoc. Prof. Dr. Khoirul Anwar, Telkom University, Indonesia
- Topic 8: "AI, Data and Knowledge" by Mr. Azhar Kassim bin Mustapha, CEO, Nervesis Sdn Bhd (CTO of Emstartups.ai USA), Malaysia
- Topic 9: "Predictive Analytics & Machine Learning" by Assoc. Prof. Dr. Mohd Fadzil Hassan, UTP, Malaysia
- Topic 10: "AI for mURLLC" by Prof. Dr. Arumugam Nallanathan, Queen Mary University of London, UK



Day 4:

- Hands-on Workshop: "Introduction to Pytorch for Deep Learning" by Mr. Mohd Haris Lye Abdullah, MMU, Malaysia
- Topic 11: "Federated Learning: Are Wireless Networks Ready for it?" by Dr. Majid Butt, Nokia Bell Labs, France
- Topic 12: "Neuromorphic computing and communication systems" by Prof. Dr. Osvaldo Simeone, King's College London, UK



IEEE Malaysia Communication Society and Vehicular Technology Joint Chapter
Reported by: Leow Chee Yen (UTM)

ITU International Training Programme on 5G Implementation : Practices and Case Studies

27 June – 3 July 2022



INTERNATIONAL TELECOMMUNICATION UNION
CENTRE OF EXCELLENCE

ONLINE TRAINING PROGRAMME ON
5G IMPLEMENTATION

**PRACTICES &
CASE STUDIES**

27 JUNE - 3 JULY
2022

SCAN FOR REGISTRATION

Jointly Organised by

- WIRELESS COMMUNICATION CENTRE, UNIVERSITI TEKNOLOGI MALAYSIA
- INTERNATIONAL TELECOMMUNICATION UNION (ITU)
- IEEE MALAYSIA COMSOC & VTS JOINT CHAPTER

Logos for UTM WCC, ITU, and IEEE COMSOC VTS are also present.

IEEE Malaysia Communication Society and Vehicular Technology Society Joint Chapter has recently collaborated with International Telecommunication Union (ITU) and Universiti Teknologi Malaysia to organise the ITU certification training programme on 5G Implementation: Practices and Case Studies, from 27th June to 3rd July 2022.

This training is one of the ITU flagship capacity building programmes delivered through the ITU Centre of Excellence (ITU COE). ITU COE is a Global network of high-quality training institutions to build capacity and develop skills in the field of ICT and digital technologies. In Malaysia, the Wireless Communication Centre, Universiti Teknologi Malaysia (UTM), has been selected as the ITU COE for Asia Pacific Region for 2019-2022 cycle. To date, UTM has trained over 220 participants from 21 countries through 7 training programmes.

Globally, various stages of 5G implementations such as trialling, licensing, deploying, limited launches, nationwide launches have taken place. Implementation challenges exist, and innovative deployment approaches are required before the full potential of 5G network and services can be realized. This ITU training programme equipped participants with industry best practises and lessons learned in 5G network implementation.

A total of 49 participants completed the training programme. 78% of the participants are from industry and 22% are international participants from countries such as Austria, Burkina Faso (West Africa), China, Thailand. IEEE COMVT joint chapter has sponsored 6 active student members from Malaysia to attend this training.

This training was delivered through 8 hours of live lectures by 8 expert speakers from the field, including 2 industry speakers from Malaysia and 3 international speakers. Participants interacted with the speakers through live question and answer session and online discussion forum. ITU Academy e-learning platform was used as the online platform for learning activities such as discussion forum, course material sharing, and quizzes. 98% of the participants passed the certification training assessment

IEEE Engineering in Medicine and Biology Society (EMBS)

Reported by Ezreen Farina Shair (ezreen@utem.edu.my), Siti Anom Ahmad (sanom@upm.edu.my)

MyEMBS Best Final Year Project Competition

MyEMBS Best Final Year Project Competition organized by Universiti Teknikal Malaysia Melaka (UTeM) has been held on 1st June 2021 in conjunction with the Research & Innovation Day (RADIATE2022). MyEMBS also acts as the co-sponsor for the program. Five students from the university have been shortlisted as the finalists for the award.



One panelist from the IEEE-EMBS Malaysia Chapter have been appointed to evaluate the presentations and chose the winner. The award given is to encourage students to conduct their research or projects in the biomedical engineering field, thus motivated them to learn and have wide knowledge of current technology in biomedical engineering. A total of more than 200 students, academicians and industry sectors attended the session.

MyEMBS Webinar: How to Publish in IEEE Platform & High Impact Journal

On 2nd June 2022, the IEEE-EMBS Malaysia Chapter has successfully co-organized an online webinar on How to Publish in IEEE Platform & High Impact Journal.

Prof. Ir. Dr. Siti Anom Ahmad, Chair of the IEEE-EMBS Malaysia Chapter was one of the invited speaker, sharing her insights and experiences on the subject matter. The second speaker is Dr. Merbaksh Nilashi, a research fellow from Universiti Teknologi Malaysia. The webinar was attended by 50 participants consist of students and academicians.

BACKGROUND
Tired of being turned down by journals? Want to know how to guarantee that your papers will be accepted for publication?
This workshop will assist you in gaining advanced knowledge and skills in academic writing for the publication of scientific papers in IEEE Xplore in the field of, but not limited to, Healthcare Engineering. Three distinctive scholars with substantial knowledge in high-impact publications, who are also journal editors and reviewers, will share their insights and experiences in this workshop. You will get the opportunity to ask questions and interact one-on-one with the panelists. You may also bring your own prepared abstract to discuss with the panelists.

WHAT YOU'LL LEARN

- What are the factors that contribute to your success in getting your paper published in high-quality journals.
- How to submit your paper to the target journals and get them published.
- Advanced details on the upcoming International Conference on Healthcare Engineering (ICHE2022) and opportunity to get published in IEEE Xplore.

Thursday, 2nd June 2022
14:00 - 16:00 (GMT +8)

Certificate is provided! Free Admission! Zoom

Register here: bit.ly/webinar2-iche

CFP: ICHE2022

Call for papers for International Conference on Healthcare Engineering (ICHE2022), from 23rd – 25th September 2022.

IEEE-EMBS Malaysia Chapter is the Technical Co-Sponsor for ICHE2022. For further information, please visit <https://healthcare-engineering.net/>.

IMPORTANT DATES

- Full Paper Submission: 15th June 2022
- Acceptance of Full Paper Notification: 15th July 2022
- Final Paper Submission & Conference Registration: 15th August 2022
- Conference Date: 23rd - 25th September 2022

PUBLICATIONS

- Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.
- All requirement completed and presented papers will be published in Scopus Indexed proceeding.

TRACKS

- Engineering for Disease Prevention, Diagnosis, Treatment & Management
- Engineering for Patient Care & Safety
- Engineering for Medical Specialties

Submit Paper: AmB@healthcare-engineering.net

CFP: IECBES2022

Call for papers for IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES2022), Kuala Lumpur, Malaysia from 7th – 9th December 2022 (HYBRID CONFERENCE).

For further information, please visit our website <https://iecbes.org> or email us at info@iecbes.org.

HEALTHCARE PERSONALISATION: FOR THE FUTURE & BEYOND IECBES
7th - 9th DECEMBER 2022

TRACKS

- Biomedical Engineering
- Healthcare Engineering
- Medical Devices
- Medical Informatics
- Medical Robotics
- Medical Systems
- Medical Technology
- Medical Training
- Medical Devices
- Medical Informatics
- Medical Robotics
- Medical Systems
- Medical Technology
- Medical Training

VENUE

The IEEE Engineering in Medicine and Biology Society (EMBS) is pleased to announce the 2022 International Conference on Biomedical Engineering and Sciences (IECBES2022) which will be held in Kuala Lumpur, Malaysia from 7th to 9th December 2022. The conference will be held in a hybrid format, allowing participants to attend either in person or online. The conference will feature keynote speeches, technical sessions, workshops, and exhibitions. The conference is co-organized by the IEEE Engineering in Medicine and Biology Society (EMBS) and the IEEE Engineering in Medicine and Biology Society (EMBS) Malaysia Chapter. The conference is co-sponsored by the IEEE Engineering in Medicine and Biology Society (EMBS) Malaysia Chapter and the IEEE Engineering in Medicine and Biology Society (EMBS) Malaysia Chapter.

ORGANIZING COMMITTEES

Alpha Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Beta Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Gamma Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Delta Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Epsilon Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Zeta Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Eta Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Theta Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Iota Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Kappa Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Lambda Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Mu Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Nu Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Xi Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Omicron Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Pi Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Rho Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Sigma Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Tau Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Upsilon Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Phi Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Chi Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Psi Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka
Omega Area Co-Chair: Siti Anom Ahmad, Universiti Teknikal Malaysia Melaka

CALL FOR WORKSHOP PROPOSALS

- 15 AUG 2022: Workshop Submission Deadline
- 20 AUG 2022: Proposal Acceptance Notification

CALL FOR SPECIAL SESSION PROPOSALS

- 15 MAY 2022: Special Session Submission Deadline
- 19 JUN 2022: Proposal Acceptance Notification



IEEE Electron Device Society (EDS)

Reported by: **Maizatul Zolkapli (maizatul544@uitm.edu.my)**

STEM for all: Inspiring Malaysia Indigenous students through EDS-ETC



ASDAF students who undergoes STEM workshop during EDS-ETC kit.

An educational and a community service event was organized by IEEE Electron Devices Society (EDS) Malaysia Chapter in collaboration with student and staff volunteers at International Islamic University Malaysia. The program was sponsored by EDS-ETC (EDHAC21-1) in response to the IEEE Electron Devices Society (EDS) and IEEE HAC Special Call for Proposals: EDS-Relevant Technology for Local Community Challenges. The project was targeted to 50 indigenous students age 13 to 19 years old who are staying at . Asrama Darul Falah PERKIM (ASDAF) hostel. Based on the data analysis, majority of them are facing a problem in learning the sciences and mathematics subjects. This might be due to lack of exposure to provide the aid in their STEM-related learning to them. As a result, we organized a half day face to face STEM workshop through EDS - ETC to introduce students to basic engineering sciences such as electrical circuits and the components therein. A total of 50 students were involved in this workshop. Using the STEM module as guidance, students learn how to properly assemble a circuit using the components provided in the kit. The STEM modules are divided into two i) Snap Circuit Coding ii) paper circuit. Among the selected projects are Flying Saucer, Fun Circuit and Fan Coding. As for Fan Coding, which involves coding, students write coding in the Snap Circuits® application that has been installed in the tablet and control the circuit with it. 6 free tablets sponsored by EDS-ETC (EDHAC21-1) in response to the IEEE Electron Devices Society (EDS) and IEEE HAC Special Call for Proposals: EDS-Relevant Technology for Local Community Challenges were given to the ASDAF management to assist the students on hands on STEM learning using Snap circuit coding. This session certainly has helped them in seeing the real application of electronics and it is hoped it will stimulate their interests in this field.

Reported by *Aliza Aini Md Ralib, and Rosminazuin Ab Rahim*

IEEE EDS Malaysia's Virtual Distinguished Lecture: New routes and paradigms for Device Engineering in the Nanoelectronics and Nanosystems Era

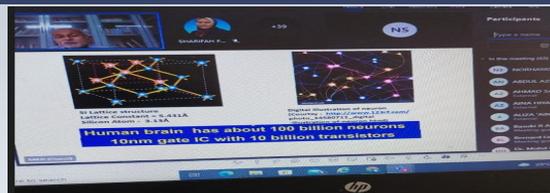


Prof S. Deleonibus giving online DL through Microsoft Teams.

IEEE EDS Malaysia Chapter has successfully organized the 2nd Distinguished Lecturer Talk for 2022 on 30th May 2022 via the online platform Microsoft teams. Prof S. Deleonibus, the CEA Research Director Past Chief Scientist, Université Grenoble Alpes France gave talk titled New routes and paradigms for Device Engineering in the Nanoelectronics and Nanosystems Era. The lecture which attended by 30 participants discussed about major power consumption reduction that will drive future design of technologies and architectures that will request less greedy devices and interconnect systems. The electronic market will be able to face an exponential growth thanks to the availability and feasibility of autonomous and mobile systems necessary to societal needs. The increasing complexity of high volume fabricated systems will be possible if we aim at zero intrinsic variability, and generalize 3-dimensional integration of hybrid, heterogeneous technologies at the device, functional and system levels. Thanks to the new technological opportunities, alternative neuromorphic and quantum based computing, are showing up. The future of Nanoelectronics will face the major concerns of being Energy and Variability Efficient(E.V.E.).

Reported by *Hazian Mamat, Suhana Mohamed Sultan, Maizatul Zolkapli and Ahmad Sabirin Zoolfakar*

IEEE EDS Malaysia's Virtual Distinguished Lecture: Birth And Evolution Of Semiconductor Devices : 75 Years Of Transistor And Its Impact On Humanity



Dr. M.K. Radhakrishnan giving online DL through Microsoft Teams.

IEEE EDS Malaysia Chapter has successfully organized the 3rd Distinguished Lecturer Talk for 2022 on 2nd June 2022 via the online platform Microsoft teams. Dr. M.K. Radhakrishnan, the Founder Director of NanoRel LLP -Technical Consultants Singapore gave a talk titled Birth and Evolution of Semiconductor Devices: 75 Years Of Transistor And Its Impact On Humanity. He shared the progression of device technology and its transformation from micro to nanoelectronics and to present stage. The benefits to humanity are immense from all these, but seems to challenge fundamentals of the human thought process and behavioral pattern. A major pattern change is already happening. Reflections from various corners are alarming and a short discussion about such observations is also the part of this talk. The event catches the attention of about 80 participants from Malaysia and other countries. The footage of the presentation is also being shared on social media i.e. YouTube channel IEEE EDS Malaysia, this is to increase the visibility of IEEE EDS and as an approach for membership promotion.

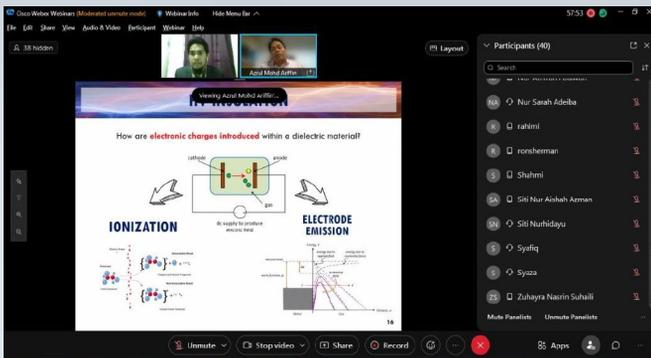
Reported by *Hazian Mamat, Suhana Mohamed Sultan, Maizatul Zolkapli and Ahmad Sabirin Zoolfakar*

IEEE Dielectrics and Electrical Insulation Society (DEIS)

Reported by: Ir. Ts. Dr. Wong Jee Keen Raymond, Universiti Malaya (wjkraymond@um.edu.my)

High Voltage Engineering, From Theory to Practice

Electrical Engineering, College of Engineering, Universiti Teknologi MARA (UiTM) Shah Alam with IEEE Dielectrics and Electrical Insulation Society (DEIS) Malaysia Chapter entitled “High Voltage Engineering: From Theory to Practice”. The webinar was conducted over the Webex online platform with Associate Professor Ir Ts Dr Azrul Mohd Ariffin from Universiti Tenaga Nasional (UNITEN) as the invited speaker, who is also an Executive Committee for IEEE Dielectrics and Electrical Insulation Society (DEIS) Malaysia Chapter. This program was aimed to give insights into the fundamentals of high voltage engineering and its applications in the real world. Around 33 participants joined the webinar, mostly third-year Electrical Engineering students taking the High Voltage course. The webinar also served as a platform for DEIS to promote the society and its activities, in order to encourage more membership from students and those interested in the areas of dielectrics and electrical insulation for high voltage applications. It is hoped that more programs of this nature can be organized in the future.



During the visit, the Head of UMHVL, Associate Professor Ir. Dr. Hazlee Azil Illias, who is also the Vice Chair of IEEE Dielectrics and Electrical Insulation Society (DEIS) Malaysia Chapter and the Counselor of IEEE Universiti Malaya Student Branch, introduced the facilities available at UMHVL and explained the activities carried out at the lab and the lab safety requirement. After that, the delegates visited UMHVL to gain a better insight into the lab.

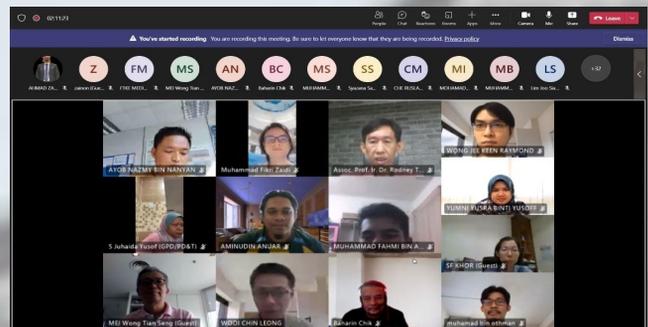


Knowledge sharing Webinar from Industry Experts

On 17 June 2022, IEEE DEIS had organized knowledge sharing webinar from industry experts together with University Malaysia Perlis (UNIMAP). The webinar was moderated by Ir. Ts. Dr. Wooi Chin Leong who is the committee of IEEE DEIS Malaysia section. Around 80 participants from the industry and academic attended the webinar. The two industrial speakers, Ir. Wong Tian Seng and Ir. Baharin bin Chik sharing their experience in this webinar. Both of them have more than 20 years of experience in the industry. They shared on the topic of consultancy service in the construction industry and power system study using commercial engineering software. The webinar was successfully closed with an interesting questions and answer session.

UNIMAS Technical Visit to UMHVL

On 9th June 2022, three academic staffs from Universiti Malaysia Sarawak (UNIMAS) visited the Universiti Malaya High Voltage Laboratory (UMHVL) at the Department of Electrical Engineering, Faculty of Engineering, Universiti Malaya. The purposes of the visit were to obtain more information regarding setting up a new high voltage lab and to seek advice on the lab safety requirements.



Technical Webinars



HYBRID WEBINAR EVENT
AP/MTT/EMC Webinar Series
"Overview of Electromagnetic Selective Structures"

SPEAKER:
Prof. Shen Zhongxiang
School of Electrical & Electronic Engineering,
Nanyang Technological University,
Singapore.
15 June 2022 (Wednesday)
Registration Link: shorturl.at/cjtxW
PLATFORM: Zoom
Venue: Tutorial room 10/Amart classroom
P19a Level 5 School of Electrical Engineering



AP/MTT/EMC Webinar Series
IEEE AP-S Young Professional Ambassador Talk (Virtual)
"From new to old: How the transition from an academic environment to a real-world engineering environment can teach you valuable lessons about the broader aspects of the engineering profession"

SPEAKER:
Dr. Heinrich Edgar Arnold Laue
Communications Engineer,
Namibia Water Corporation Ltd,
Namibia.

Registration Link: shorturl.at/u0Z7
PLATFORM: Zoom
16 June 2022 (Thursday)
3.00pm - 4.00pm (MYT)



AP/MTT/EMC Webinar Series
IEEE AP-S Young Professional Ambassador Talk (Virtual)
"Wireless Power Transfer Technology: Past, Now and the Future"

SPEAKER:
Dr. Wei Lin
Lecturer
School of Electrical and Data Engineering,
University of Technology Sydney,
Sydney, Australia

Registration Link: shorturl.at/kuEG3
PLATFORM: Zoom
1st June 2022 (Wednesday)
9.30 am - 10.30 am (MYT)



WCC & ALUMNI expert talk

SERIES 1
POINT - TO - POINT COMMUNICATION IN INTEGRATED - AERIAL FUTURE NETWORKS - PROPAGATION AND FUTURE CHALLENGES

18 MAY 2022
WEDNESDAY
10AM

MODERATOR
ASSOC. PROF. DR. HOHD BAZAL TAMALIDIN

GUEST SPEAKER
PROF. DR. JAFRI DIN
Director of WCC

PLATFORM: CISCO WEBEX MEETING

Special Congratulations to Grace Lim Soo Yong of The University of Nottingham in Malaysia for delivering talk at OPEN IEEE AUSTRALIA SEMINAR with topic entitled Propagation Modeling and Measurements in Complex Environments for 5G Communications

Chapter CSR

Humanitarian initiative by one of our executive committee member **Azlan Aziz**, with other NGOs namely MARTS and MERCY during post flood mission in early 2022.



Awards & Recognition

Congratulation to our members for the awards:

- Sarah Yasmin Mohamad for 2022 IEEE R10 Educational Activities Fund
- Norun Fariyah Abdul Malek for IEEE STEM Portal Grant
- Lim Eng Hock for appointment of 2022 Akademi Sains Malaysia Fellow
- Siti Zainab Mohd Hamzah & Norun Fariha Abdul Malek, Nor Hazima Ardzemi & Farah Nadia Mohd Isa for IEEE AP-s travel grant to attend 2022 IEEE International Symposium on Antennas and Propagation in Denver

RFM2022

RFM is back this year with more exciting keynotes from all around the world. The 9th edition of RFM will be held in Kuala Lumpur, from 19 – 21 December 2022. Do visit our website for the details:

<https://rfm2022.apmttemc.org/>

Connect with Us

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Chapter FB page: @IEEEMalaysiaAPMTTEMCMalaysiaChapter

Chapter LinkedIn: <https://www.linkedin.com/company/13646883/>

Email: apmttemc@gmail.com

Youtube channel:

<https://www.youtube.com/channel/UCvUPIYOzNz88zRBvZvsTLuw>

IEEE MALAYSIA SECTION IEEE Signal Processing Society (SPS)

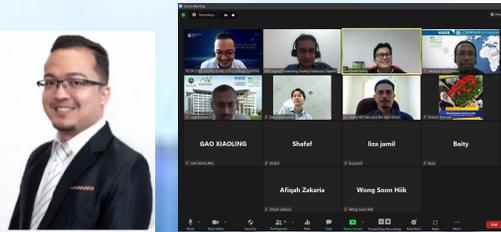
Reported by Dr. Usman Ullah Sheikh (usman@utm.my)

AI Gaming Competition



IEEE SPS Malaysia chapter, together with IEEE APU Student Branch and IEEE MMU Student Branch organized a one-day AI Gaming Competition. The event was supported by Asia Pacific Analytics Club, Asia Pacific Center for Analytics and IEM APU Student Section. The competition was held online on Microsoft Team platform. Koketsu Motseothata who is a software developer and also a Microsoft Student Gold Ambassador conducted the competition which as held on 9 April 2022.

Webinar : Selective Thermal and Visible Image Fusion Model for Illumination-invariant Ear Recognition



Ear recognition has gained interest as a mode of biometrics due to its invariant to emotions and no-contact acquisition. It is, however, affected by illumination variations where visible images taken in bad illumination condition. Dr Syed Mohd Zahid from UiTM Shah Alam gave a webinar on how fusion of thermal and visible images can be used to develop a robust ear recognition system. The webinar on the 13 Apr 2022 was conducted online and was attended by 14 attendees, consisting of 6 IEEE members and non-IEEE.

Introduction to IEEE Center for Leadership Excellence



Prof Dr Norliza Mohd Noor from the IEEE SPS Society Malaysia gave a talk on IEEE Center for Leadership Excellence. The event which was co-organized by IEEE Malaysia Section was focused on the IEEE CLE that offers training solutions to serve IEEE user communities including volunteers, non-volunteers, students, member and conference organizers. The talk was held online on 22 Apr 2022.

Webinar : Information Hiding via Image Enhancement



Dr Simyong Ong from UM gave a webinar on a novel method on embedding data in images while executing image enhancement steps. In her talk, the concept of 2D median filter and how it is re-engineered for embedding as well as robustness against attack was presented. The webinar on the 25 May 2022 was conducted online and was attended by 13 attendees, consisting of 4 IEEE members and non-IEEE attendees.

International Workshop on Image and Signal Processing of Real Time Biomedical Data



IEEE SPS Malaysia chapter, IEEE UTHM student branch with the collaboration with Kongu Engineering College (KEC), India, Ultra Technology Engineering (UTE), Faculty of Electrical and Electronic Engineering (FKEE), UTHM, Malaysia and EECLIPS conducted an international workshop on image and signal processing focused on real time biomedical data. This free virtual workshop was conducted on the 28 May 2022 and 4 June 2022. The workshop covered topics on image and signal enhancement, feature extraction, and classification. Besides theory, the workshop also covered hands-on using software tools such as Python, MATLAB and Simulink. The workshop was a success with 88 attendees consisting of 25 IEEE members.

Webinar: Orca Algorithm on Electric Vehicles Inclusion in Economic Operation (28 April 2022)

In conjunction with PES Month, on April 28th, 2022, PES conducted an online webinar presented by Prof. Ir. A.N. Afandi who is from PES Indonesia. He is a full professor who works as a Senior Researcher in the Electrical Engineering Department (EED), Engineering Faculty, Universitas Negeri Malang (UM), Indonesia. This webinar discusses on issues in getting optimal power portion, and Orca Algorithm is used for determining economically the optimal solution for electrical vehicle inclusion on the power system. All PES webinars can be viewed in IEEE PES Malaysia Chapter Facebook or Youtube channel.



Orca Algorithm on Electric Vehicles Inclusion in Economic Operation

Webinar: Electrical Energy Storage Roles In The Future Grids (10 May 2022)

Dr. Ahmed Faheem Zobaa delivered an online webinar on 10th of May 2022 via IEEE PES Facebook and Youtube channel. He is currently a Reader in electrical and power engineering at Brunel University London, UK. Energy Storage has played three primary roles. This webinar presents the future roles and challenges of electrical energy storage. Firstly, storing electricity during off-peak times lowers electricity costs. Secondly, it improves the reliability of the power supply by supporting users during power interruptions. Thirdly, it enhances power quality, frequency, and voltage.



Thank you very much for joining us today. Please SUBSCRIBE to IEEE PES Malaysia YouTube Channel and follow Electrical Energy Storage Roles in the Future Grids

Malaysia Solar PV Industry Development: An Industry Perspective (18 May 2022)

UTEM and IEEE PES Malaysia co-organized an online webinar on 18th May 2022 via MS Teams. The speaker is Mr Poon Kean Yuen who is the Project Director, Atlantic Blue Sdn Bhd. The webinar discusses on the current Malaysian scenario in solar PV developments.

Towards Resilient Power Systems: How Ready are We? (22 June 2022)

Dr Mathaios Panteli from UK delivered this online webinar on 22nd June 2022. This session was a joint event between IET Malaysia and IEEE PES Malaysia. The session discusses on the experience sharing and application on resilient power system planning and operation.

FKE INDUSTRIAL WEBINAR SERIES 2022

MALAYSIA SOLAR PV INDUSTRY DEVELOPMENT AN INDUSTRY PERSPECTIVE

WEDNESDAY 18 MAY 2022 | TIME 2:30 PM

MS-TEAMS LINK
shorturl.at/bvyKS

Mr. Poon Kean Yuen
PROJECT DIRECTOR
ATLANTIC BLUE SDN BHD – SOLARVEST

Co-organizer
IEEE PES
Power & Energy Society™
MALAYSIA CHAPTER

He is the project director for Solarvest Holdings Berhad. He has been involved in the solar energy industry since 2012 during the Feed In Tariff (FIT) scheme. He is focusing on Large Scale Solar (LSS) projects from LSS 1 until LSS 4 now.

TOWARDS RESILIENT POWER SYSTEMS: HOW READY ARE WE ???

JOIN OUR WEBINAR

Moderator: Ir Ts Dr Teh Jia Shen
Speaker: Mathaios Panteli
PhD in Electrical Power Engineering & IET Chartered Engineer

CONTENTS
SHARING ON THE EXPERIENCES AND APPLICATIONS ON RESILIENT POWER SYSTEMS PLANNING AND OPERATION.

Wednesday | 22nd June | 2022 REGISTER HERE
3.00 pm – 4.00 pm



IEEE Computational Intelligence Society

Reported by: Hermawan Nugroho (hermawan.nugroho@nottingham.edu,my)

IEEE CIS Distinguished Lecture Program- Introduction to Evolutionary Multi-Objective Optimization

The Distinguished Lecture Program (DLP) was held on 25 April 2022 virtually via Microsoft Teams application.

The talk, entitled “Introduction to Evolutionary Multi-Objective Optimization”, was delivered by Prof Hisao Ishibuchi. Prof. Ishibuchi is an IEEE Fellow. He was the IEEE Computational Intelligence Society (CIS) Vice-President for Technical Activities in 2010-2013 and the Editor-in-Chief of IEEE Computational Intelligence Magazine in 2014-2019. Currently he is an IEEE CIS Administrative Committee Member (2014-2019, 2021-2023), and an Associate Editor of several journals such as IEEE Trans. on Evolutionary Computation, IEEE Trans. on Cybernetics, IEEE Access, and ACM Computing Surveys.

The talk was attended by 79 registered participants (with 46 participants were IEEE Members).

The talk started with the formulations of single-objective and multi-objective optimization problems. Prof Ishibuchi then explained that almost all optimization problems have multiple objectives whereas they are usually handled as single-objective optimization problems. Next, multi-objective optimization was explained using mathematical concepts such as Pareto dominance and Pareto optimality. Then, the framework of evolutionary multi-objective optimization algorithms was explained together with frequently-used algorithms such as NSGA-II, MOEA/D and SMS-EMOA. The use of evolutionary multi-objective optimization in the structure design of neural networks was also discussed.

4. Current Hot Topics

(I) Evolutionary Many-Objective Optimization

Multi-Objective Problems: Maximize $f_1(x), f_2(x), \dots, f_m(x)$

Multi-Objective Problems:
 Maximize $f_1(x), f_2(x)$
 Maximize $f_1(x), f_2(x), f_3(x)$

Many-Objective Problems:
 Maximize $f_1(x), f_2(x), f_3(x), f_4(x)$
 Maximize $f_1(x), f_2(x), f_3(x), f_4(x), f_5(x)$
 Maximize $f_1(x), f_2(x), f_3(x), f_4(x), f_5(x), f_6(x), \dots$

When an optimization problem has many objectives (e.g., 10 objectives), almost all solutions in the current population are non-dominated.
 => We cannot use Pareto dominance as a solution evaluation criterion.
 => We have a huge number of good solutions.



IEEE CIS Distinguished Lecturer Program

IEEE CIS Malaysia Chapter invites you to a Distinguished Lecture by Prof. Hisao Ishibuchi from Southern University of Science and Technology

Hisao Ishibuchi received the BS and MS degrees from Kyoto University in 1985 and 1987, respectively, and the PhD degree from Osaka Prefecture University in 1992. He is a Chair Professor at Southern University of Science and Technology, China. He was the IEEE Computational Intelligence Society (CIS) Vice-President for Technical Activities in 2010-2013 and the Editor-in-Chief of IEEE Computational Intelligence Magazine in 2014-2019. Currently he is an IEEE CIS Administrative Committee Member (2014-2019, 2021-2023), an IEEE CIS Distinguished Lecturer (2015-2017, 2021-2023), and an Associate Editor of several journals such as IEEE Trans. on Evolutionary Computation, IEEE Trans. on Cybernetics, IEEE Access, and ACM Computing Surveys. He is also Program Chair of IEEE SSCI 2022 in Singapore, and General Chair of IEEE WCCI 2014 in Yokohama. He received a Fuzzy Systems Pioneer Award from IEEE CIS in 2019, an Outstanding Paper Award from IEEE Trans. on Evolutionary Computation in 2020, and Best Paper Awards from FUZZ-IEEE 2009, 2011, EMO 2019, and GECCO 2004, 2017, 2018, 2020, 2021. He also received a JSPS prize in 2007. He is an IEEE Fellow.

Introduction to Evolutionary Multi-Objective Optimization

This talk starts with the formulations of single-objective and multi-objective optimization problems. It is explained that almost all optimization problems have multiple objectives whereas they are usually handled as single-objective optimization problems. Next, multi-objective optimization is formally explained using some mathematical concepts such as Pareto dominance and Pareto optimality. Then, the framework of evolutionary multi-objective optimization algorithms is explained together with frequently-used algorithms such as NSGA-II, MOEA/D and SMS-EMOA. The use of evolutionary multi-objective optimization in the structure design of neural networks is also mentioned in this talk.

Monday, 25th April 2022
4 pm – 5 pm
Google Meet

IEEE CIS 1st Executive Meeting

The first executive meeting was held on 12th February 2022 at 3:30 to 4:30 pm. The meeting was conducted online via Google Meet application.

IEEE CIS 2022-02-12 14-37-53

1. Introduction to Evolutionary Computation

Local Search (Point-based search)

Initial solution
Final solution

Iterated Local Search (Point-based search)

Initial solution



IEEE MALAYSIA SECTION IEEE Photonics Society (IPS), Malaysia Chapter

Reported by: Nelidya Md.Yusoff, Aiman Ismail (nelidya.kl@utm.my; aiman@uniten.edu.my)

MyIPS – RAMADHAN CHARITY PROGRAM

On 27 April 2022, the IEEE Photonics Society organized Ramadhan Charity Program for the less fortunate families at Flat Taman Kosas, Ampang Selangor. Among the 21 recipients are single mothers, people with disability, and asnaf who received monetary assistance. These monetary donations help to ease their burden as they go through the holy month of Ramadhan. The fund was donated by various parties who were aware of the program.

MyIPS – SCHOOL HOLIDAY PROGRAM

During the recent school holiday, Dr. Siti Azlida Ibrahim gave a talk entitled “Teknologi Fiber Optik dan Kegunaannya” on 8 June 2022, which was broadcasted on the IEEE ComSoc VT Malaysia youtube channel. The talk was delivered in Malay language, aiming to increase knowledge of fiber optics technology among local secondary school students. The students were so happy with this session as they gained a lot of new knowledge on the applications of fiber optics technology in their daily lives.

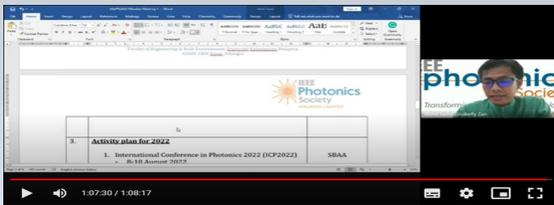
MyIPS – EXECUTIVE COMMITTEE MEETING

On 10th of February 2022, the IEEE Photonics Society organized an online Excomm meeting. The meeting was chaired by Dr. Mohd Saiful Dzulkefly Zan, the MyIPS 2021/2022 chair and 13 committee members joined the meeting. During the meeting, all portfolios presented their future plans for 2022. Many interesting programs have been discussed and the meeting ended at 11 am.



MyIPS – FINAL YEAR PROJECT AWARD

On 21st June 2022, the Electrical and Computer Engineering Department, Kulliyah Of Engineering, International Islamic University Malaysia (IIUM), organized a Final Year Project seminar. Assoc. Prof. Dr. Nelidya Md. Yusoff was invited as the representative for MyIPS at this face-to-face seminar where there were 7 projects evaluated under the Photonics track. 2 projects have been selected as winners and they received one-year IEEE membership under the IEEE Photonics Society and an award certificate. All students were so excited to share their findings as this was the first event after the Covid-19 pandemic. The projects were interesting as most of the students focused on the experiments and simulation. The FYP award ceremony ended at 1 pm.



MyIPS – INDUSTRIAL TALK

On 3rd June 2022, Dr. Kharina Khairi, the executive committee of IEEE Photonics Society and also a researcher of Telekom Malaysia Research & Development gave an Industrial talk entitled “TM FTTH Network: Field Trial of Co-existence PON System and Fault Detection” at Universiti Malaysia Perlis. The face-to-face talk was attended by 2 lecturers and 50 undergraduate students of the Faculty of Electronic Engineering Technology.





IEEE Power Electronics Society Malaysia Chapter (PELS)

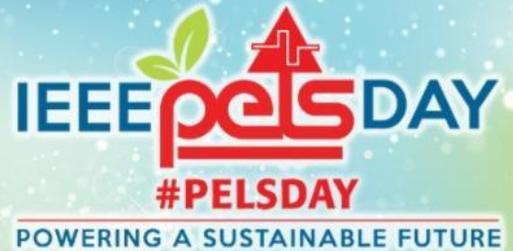
Reported by: Chuen Ling Toh (chuenling@uniten.edu.my)

IEEE PELS DAY 2022

Two activities are conducted in conjunction with IEEE PELS DAY 2022

Event 1: IEEE PELS National Lecture Program (NLP)

IEEE PELS NLP was conducted in virtual mode on 25 June 2022. Invited speaker, Dr. Mohd Zamri Che Wanik had delivered an interesting topic on “Planning and Operation of Power System Dominated by Power Electronic Converter Based Generators”. The speaker had shared his experiences from Qatar energy perspective for this integration which contributed to the challenges and trends to the future electrical network. A total of 22 attendees participated in this event.



Online Attendees



In-person Attendees

IEEE PELS National Lecture Program (NLP)
PLANNING AND OPERATION OF POWER SYSTEM DOMINATED BY POWER ELECTRONIC CONVERTER BASED GENERATORS

DATE 25 JUNE 2022 **TIME 2.00PM (MALAYSIA TIME)**

MODE: Video call link: <https://meet.google.com/klq-pjfr-hnt>

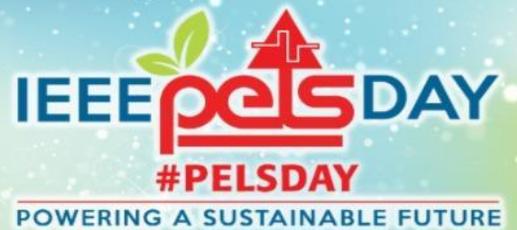
SPEAKER: Dr. -Ing. Mohd Zamri Che Wanik
 Senior Scientist/ Smart Grids Project Lead
 Qatar Environment and Energy Research Institute (QEERI)
 Hamad Bin Khalifa University (HBKU)
 Qatar Foundation
 State of Qatar

Logos: UTHM, IEEE PELS, FREE, STARS, Global Technopreneur University 2020, UTHM TV

Event 2: Workshop on IEEE Senior Membership Elevation

Workshop on IEEE Senior Membership Elevation was organized on 26th June 2022 by IEEE Malaysia PELS Chapter Vice Chair, Dr. Shahrin Md Ayob, and Executive Committee Dr. Tan Chee Wei. The workshop was conducted in virtual mode. Five participants attended the workshop. The speakers had first presented the basic requirements to apply for IEEE Senior membership follows by

reviewing the benefits of Senior membership. The flow of the application process had been explained clearly to all participants. Finally, at the end of the session, all of the participants are nominated by the speakers to submit their IEEE Senior Membership applications.



Online Attendees

IEEE MALAYSIA PELS CHAPTER
Workshop on Senior IEEE Membership Elevation

Speakers:
ASSOC. PROF. TS. DR. SHAHRIN MD AYOB
 Vice Chair
 IEEE Malaysia PELS Chapter
 The Institute of Electrical and Electronics Engineers

ASSOC. PROF. TS. I.R. DR. TAN CHEE WEI
 Executive Committee
 IEEE Malaysia PELS Chapter
 The Institute of Electrical and Electronics Engineers

Organizer:

SCAN THE QR CODE TO REGISTER YOUR INTEREST

26 JUNE 2022, Sunday
10.00am- 11.00am (MALAYSIA TIME)

Logos: IEEE PELS DAY, IEEE MALAYSIA PELS CHAPTER, IEEE POWER ELECTRONICS SOCIETY

Links: <https://iee.org/malaysia-pels/>, <https://www.facebook.com/IEEEPELS.my/>



IEEE Electronic Packaging Society

Reported by: Bernard LIM
berna_rd@ieee.org



IEEE IEMT 2022 invites you to submit your work to the 39th IEMT 2022 that will be held in Le Meridien, Putrajaya, Malaysia. It is an international event organized by the IEEE-EPSS, Malaysia Chapter, with co-sponsorship from IEEE Electronic Packaging Society (EPS). The IEMT typically attracts more than 400 attendees over the world. The last IEMT 2018 (Melaka, Malaysia) hosted 600 attendees, with 100 accepted papers and interactive presentation featured in 16 sessions. IEMT 2022 welcomes papers covering electronics packaging technology in diverse semiconductor market. This segment includes telecommunication, data center, automotive, EV, healthcare, aerospace, defense and others.



[<https://www.iemt.com.my/>]

SCOPE OF PAPERS SOLICITED:

Abstract should include original and previously unpublished, non-confidential and non-commercial information on new developments, technology and knowledge in the areas including, but not limited to those given below.

- Advanced Packaging – 2D, 2.5D, 3.0D, Chiplets, WLCSP, FOWLP, FOPLP & HI
- Thermal/Mechanical/Electrical Simulation & Characterization
- Material & Processing
- Emerging Packaging – Opto, Medical, Nano Technology, Wearable Electronics
- Interconnections Technologies – TSV, μ -bump, hybrid bond, FC and embedded
- LED, MEMS, NEMS & Sensor Packaging & IoT
- IC Testing Technology
- Surface Mount Technology
- Quality, Reliability & Failure Analysis
- High-Speed, Wireless & Components

IEEE Electronic Packaging Society

Reported by: Bernard LIM
berna_rd@ieee.org

KEYNOTE SPEAKERS:



Prof. Chris Bailey
Director of Computational
Mechanics and Reliability
Group
University of Greenwich



Mr Chew CH
Senior Director
OnSemi



Mr Terrence Tan
Senior Principal Engineer,
Manufacturing and Product
Engineering
Intel



Dr. Veer Dhandapani
Senior Director of Product
Development
NXP Semiconductors



Mr. Laurent Herard
Group VP – Head of Back
End Manufacturing and
Technology R&D
STMicroelectronics



Bernhard Knot
Head of Backend
Innovation Infineon



E. Jan Vardaman
President and Founder of
TechSearch International,
Inc



Rolf Aschenbrenner
Deputy Director and Head
of SIIT
Department
Fraunhofer Institute (IZM)

<https://www.iemt.com.my/program/iemt2022-keynotes/>

CONFERENCE REGISTRATION:

IENTM 2022 - 39th International Electronics Manufacturing Technology Conference 2022



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If you have any questions, contact:
Conference Secretariat
E-mail: iemtmalaysia@gmail.com
Conference Web: <https://www.iemt.com.my/>

IEEE MALAYSIA SECTION IEEE UTP STUDENT BRANCH

Reported by Ong Wei Ling (wei_19001359@utp.edu.my)

ISDP II Competition 2022

Universiti Teknologi PETRONAS, Malaysia – 24th and 25th March 2022. ISDP II Competition 2022 has been organized by mutually by Electrical and Electronic Engineering Department UTP and IEEE UTP Student Branch on 24th and 25th March 2022. Realizing the significance of technical skill set, IEEE UTP Student Branch supported the ISDP II Competition that has been organized by UTP EE Department for final year students on 24th and 25th March 2022.



Mendeley: An Essential Tool For Researchers Workshop by Dr. Haroon Rashid

Workshop venue: Microsoft Team, Universiti Teknologi PETRONAS, Malaysia. 12th April 2022. IEEE UTP SB in collaboration with IEEE YP Malaysia and IEEE RAS Malaysia organized a Free Workshop titled as “Mendeley: An Essential Tool for Researchers” by one and only Dr. Haroon Rashid, Founder and Director of Xpertopedia Academy and Research Fellow in UKM Malaysia on 12th April 2022. More than 220+ people around the globe registered for this workshop and participated actively as well.



Reported by Ong Wei Ling (wei_19001359@utp.edu.my)

Sharing Session on All You Need to Know About IEEE VoLT Program

Sharing Session venue: Microsoft Team, Universiti Teknologi PETRONAS, Malaysia. 25th May 2022. IEEE UTP Student branch with the support of IEEE RAS Malaysia Chapter organized a sharing session over "IEEE Volunteer Leadership Training (VoLT) Program" today on 25th May 2022. The Volunteer Leadership Training (VoLT) prepares IEEE volunteers for leadership roles in their local units and beyond. In this session we had invited two eloquent speakers and recent graduates of IEEE VoLT Program. The first speaker was Ms. Romina Fairbairn who is EdTech Trainer and Consultant from Argentina whereas the second speaker was Ms. Savneet Kaur Chhatwal, Chairperson IEEE Young Professionals Toronto Section.



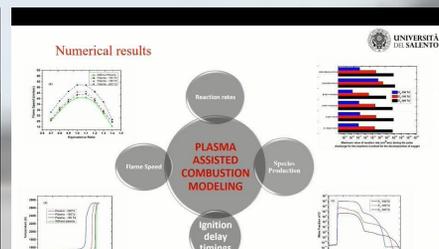
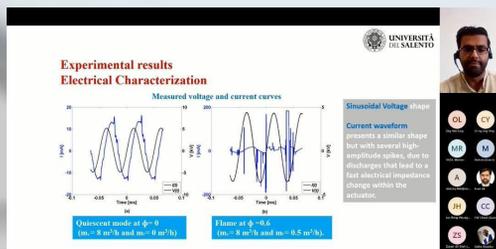
Webinar on Statistical Signal Processing in Brain Sciences by Dr. Jatoi

Workshop venue: Microsoft Team, Universiti Teknologi PETRONAS, Malaysia. 10th June 2022. IEEE UTP Student branch with the association of IEEE RAS Malaysia always tries to organize such webinars that attracts the researchers around the globe to learn the current state of the art research contributions in several science, technology, engineering and mathematical disciplines. Dr. Munsif Jatoi was proudly invited to present his talk on Statistical Signal Processing in Brain Sciences. Dr. Jatoi is the proud alumnus of Universiti Teknologi PETRONAS, Malaysia and have been doing research in brain sciences for several years. Currently Dr. Jatoi is associated with Salim Habib University Karachi Sindh Pakistan and working as Associate Professor.



Technical Session on Why Plasma Assisted Combustion? Recent Developments, challenges and Future

Technical Session venue: Microsoft Team, Universiti Teknologi PETRONAS, Malaysia. 8th July 2022. IEEE UTP SB presents a technical session on "Why Plasma Assisted Combustion? Recent Developments, challenges and Future" by Engr. Ghazanfar Mehdi. Mr. Mehdi is currently in the final phase of his doctoral studies at University of Salento Italy and has good number of International Publications in the related domain.





IEEE UTP STUDENT BRANCH

Reported by Ong Wei Ling (wei_19001359@utp.edu.my)

PAID INTERNSHIP PROGRAM FOR POSTGRADUATE & IEEE STUDENT MEMBERS

After continuous efforts, IEEE UTP Student Branch under the supervision of Dr. Illani Bt Mohd Nawi (Advisor IEEE UTP SB) got Gensonic Technology on board for several industry-academic activities under IEEE vision and scope. Among such activities we decided to open the opportunity of **PAID Internship Program for Postgraduate Students** which is the very first thing, offered by any student club/society in UTP. All credit goes to entire team and Honorable Chair Electrical and Electronic Engineering Department AP. Dr. M Naufal B M Saad for supporting the thought till end.

GENSONIC TECHNOLOGY
INTERNSHIP OPPORTUNITY
Hybrid Paid Internship Program (HPIP) 2022

Instructions to apply :
- send resume and cover letter to mustafa.abro@ieee.org and cc. illani.nawi@utp.edu.my
- mention subject title as: Applying for Internship at Gensonic Technology

For any inquiries:
+601126160845
@Ghulam E Mustafa Abro

IEEE UTP STUDENT BRANCH

Congratulations
To all our Postgraduate students for being shortlisted as PG Intern at Gensonic Technology Seri Iskandar, Perak, Malaysia

Vishnu Vardhana Reddy Karna¹, Sreeza Tarafder², Usman Bature Isyaku¹
¹Doctoral Student at Electrical and Electronic Engineering Department, Universiti Teknologi PETRONAS, Malaysia
²Master's Student at Electrical and Electronic Engineering Department, Universiti Teknologi PETRONAS, Malaysia

IEEE UTP Student Branch along with entire Electrical and Electronic Engineering Department wishes them all a great experience at their internship.

All you need to know about the Internship Experience in France

Workshop venue: Microsoft Team, Universiti Teknologi PETRONAS, Malaysia. 18th July, 2022
IEEE UTP SB in collaboration with E3S2 Club and Electrical and Electronic Engineering Department of Universiti Teknologi PETRONAS, Malaysia has organized a sharing session dully addressed by such undergraduate students who are doing their Professional internship at different organizations of France. The main aim was to encourage upcoming students for such great experience and aware them what they need to know for this program. Here are few pictures of

LIFE IN FRANCE

Life in Chalon-sur-Saône

AIDS / SPENDING IN FRANCE

All you need to know about the Internship Experience in France

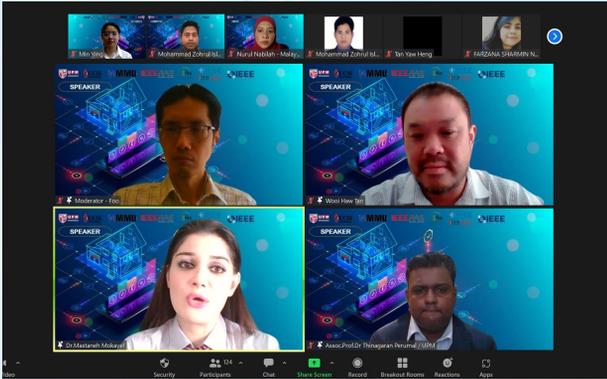
Speakers: Ainul Khairiyah Mohd Nazri, Khairul Azhar, Marcus Chong Yung



IEEE Multimedia University Student Branch

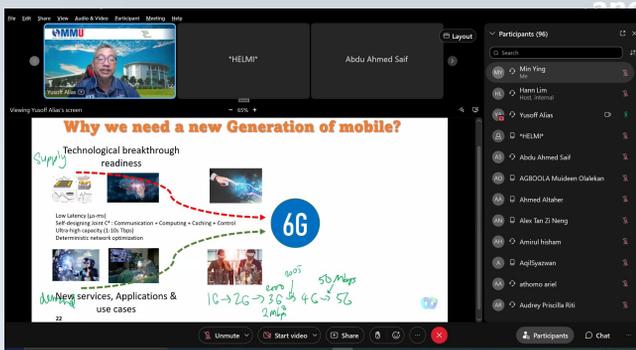
Reported by: Lim Min Ying (minying@ieee.org)

Forum: Internet of Thing (IoT) and Home Automation



An online event ‘IoT and Home Automation Forum’ was organized on 21st May 2022 in collaboration with IEEE Student Branches of Multimedia University Cyberjaya (MMU), UCSI University, and University Putra Malaysia (UPM). This Forum was led by Speakers Dr. Tan Wooi Haw (MMU), Dr. Mastaneh Mokayef (UCSI), Dr. Thinagar Perumal (UPM), and moderated by Dr. Foo Yee Loo (MMU) with 167 participants. The primary goal of this discussion was to explore the significance of IoT in many industries, specifically Home Automation. The speakers shared some insights into the challenges, opportunities of IoT and advices with the audience on the initiatives to promote IoT technology in Malaysia.

A2G Series Workshop: The Future of Mobile Communications towards beyond 5G



In conjunction with IEEE PES Day 2022: Powering a Sustainable Future, IEEE Multimedia University Student Branch has collaborated with IEEE Curtin Student Branch, IEEE Malaysia ComSoc/VTS Joint Chapter, IET MMU Student Section and Faculty of Engineering of MMU to organize a hybrid technical talk entitled “A2G Series Workshop: The Future of Mobile Communications towards beyond 5G and 6G” on 12 May 2022. The seminar was presented by Prof Dr Mohamad Yusoff bin Alias, the chair of IEEE Malaysia ComSoc/VTS Joint Chapter 2022. In this talk, Prof Yusoff has delved into different aspects, including the 6G Communications evolution worldwide, the differences between 5G and 6G, and the potentials of 6G in Malaysia. A total of 102 participants have attended the talk.

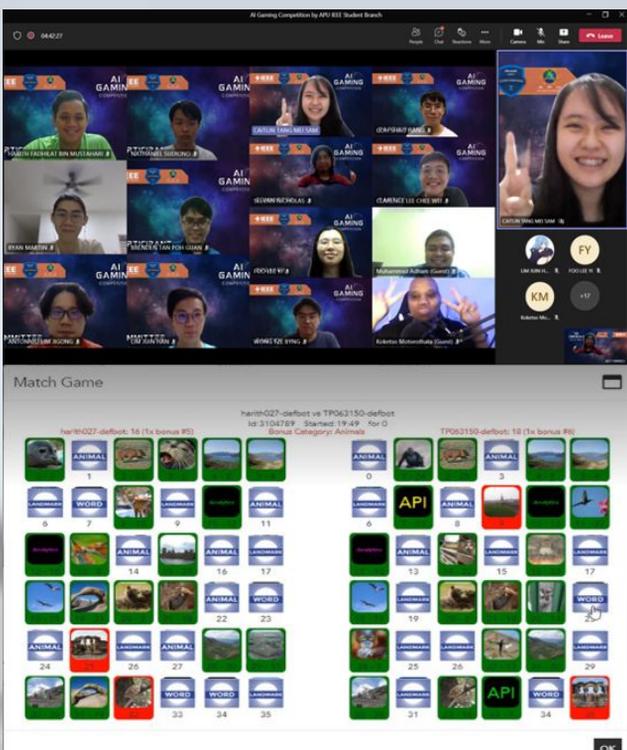
Online AI Gaming Competition

AI Gaming Competition was held on 9 April 2022 using Microsoft Teams and aigaming.com site. This 4 hour event involved 24 participants learning and writing code in Python to take part in live games. It specifically required they make use of Azure Cognitive Services in order to be able to participate. This provides an interesting and fun way for people to be introduced to Microsoft's AI and Machine Learning services. The challenge used in this competition is called The Match Game. Each participant was presented with a set of tiles, and each tile contains an image. Each tile image has one matching image and the goal of the game was to match all pairs of images in a way that earns the highest score possible. Tournaments randomly paired and played registered participants against each other every round until the winner was determined.



Online CAD Workshop: Autodesk Inventor

This workshop is a joint collaboration with UCSI IEM and APU IASS. The 2-day computer-aided design workshop was given by Ts. Dr. Alexander Chee Hon Cheong on 4 and 5 June. The workshop took place on Microsoft Teams and 22 participants attended. The aim of the workshop is to translate 2D creation into a 3D model using the software called Autodesk Inventor. It has a user-friendly interface with powerful functionalities including Part Modelling, Assembly, Drawing, Presentation, Animation and Rendering. The modelling skills equipped participants to identify and troubleshoot early problems that will surface during the early stages of ideal conceptualization.



Reported by Ir. Dr. Hazlee Azil Illias
h.illias@um.edu.my

Visit from Universiti Malaysia Sarawak to Universiti Malaya High Voltage Laboratory

On 9th June 2022, three academic staffs from Universiti Malaysia Sarawak (UNIMAS) visited the Universiti Malaya High Voltage Laboratory (UMHVL) at the Department of Electrical Engineering, Faculty of Engineering, Universiti Malaya. The purposes of the visit were to obtain more information regarding setting up a new high voltage lab at UNIMAS, to seek advice on the lab safety requirements and to establish a research collaboration between the two departments.

During the visit, the Head of UMHVL, Associate Professor Ir. Dr. Hazlee Azil Illias, who is also the Counselor of IEEE Universiti Malaya Student Branch (UMSB) and the Vice Chair of IEEE Dielectrics and Electrical Insulation Society (DEIS) Malaysia Chapter, introduced the facilities available at UMHVL and explained the activities carried out at the lab and the lab safety requirement. Dr. Hazlee also explained the activities conducted by IEEE UMSB and IEEE DEIS Malaysia Chapter that are associated to the lab. After that, the delegates visited UMHVL to gain a better insight into the lab.



UNIMAS visit to UMHVL



Benefits of IEEE Membership Webinar

On 1st April 2022, IEEE UMSB in collaboration with IEEE Power and Energy Society (PES) Malaysia Chapter and IEEE Malaysia Young Professionals (YP) had successfully co-organized a free webinar for the students about the benefits of IEEE membership. More than 20 participants joined the webinar.



Visitors from Xiamen University Malaysia

Visit from Xiamen University Malaysia

Four staffs and 17 students from Xiamen University Malaysia (XMU) visited the Universiti Malaya High Voltage Laboratory (UMHVL) at the Department of Electrical Engineering, Faculty of Engineering, Universiti Malaya on 27th June 2022. The visit was part of their educational activities. The Counselor of IEEE UMSB, Associate Professor Ir. Dr. Hazlee Azil Illias introduced the facilities available at UMHVL and explained the activities carried out at the lab. After that, the delegates visited UMHVL to gain a better insight into the lab.

IEEE PES Day 2022

Reported by Haroon Rashid (iamharoon@ieee.org) & Mohammad Zohrul Islam (zohrul21@ieee.org)

IEEE PES DAY 2022 Celebration in Malaysia

The IEEE PES Day 2022 has been observed successfully all across Malaysia throughout the month of April and May 2022. In line with the main theme of the PES Day 2022 “Powering a Sustainable Future”, a number of virtual events have been organized by the PES Day 2022 Malaysia Section’s Ambassadors. These events played an important role to educate people on the solutions and technological development mitigating the global warming. A number of programmes including quiz, poster competition, workshops and webinars have been witnessed this year where more than 500 participants attended these events from different countries. Dr. Haroon Rashid, Regional Lead (Asia Pacific) of IEEE PES DAY 2022 congratulated all the ambassadors and acknowledged their efforts in organizing events all over Malaysia in celebration of IEEE PES Day 2022.

Universiti Putra Malaysia (UPM)

Zaini Abdul Wahab, an energy management consultant, presented a talk entitled “Energy Management in Achieving global Sustainable Development Goals”. Mohammad Zohrul Islam organized this event in collaboration with IEEE Power & Energy Society (PES) Malaysia, IEEE Young Professionals (IEEE YP) Malaysia and IEEE Power & Energy Society Young Professionals (PES YP) on 9th May 2022 in an online platform. In this talk, he discussed about energy consumption and the vision of achieving global SGD goals in energy sector. Around two hundred participants joined this webinar on zoom platform and LinkedIn live.

Energy Management in Achieving global Sustainable Development Goals

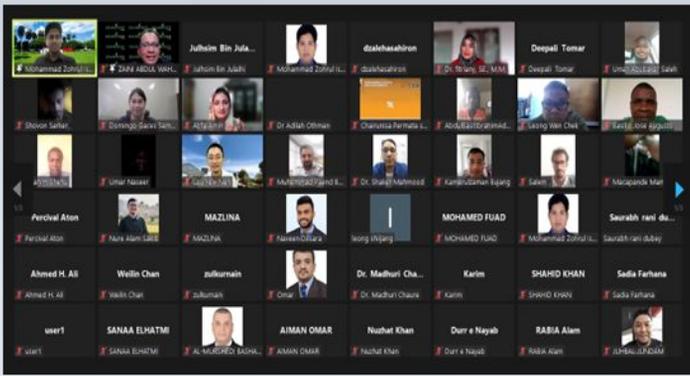
Guest speaker:
Zaini Abdul Wahab
Energy Management System Consultant

Moderator:
Mohammad Zohrul Islam
PhD Candidate
Universiti Putra Malaysia

Open for all & E-certificate will be given to all participants

09 May 2022, Monday 3:00-4:30 PM (Malaysia)

For any inquiries, please contact +801425333650 (Zohrul) zohrul21@ieee.org

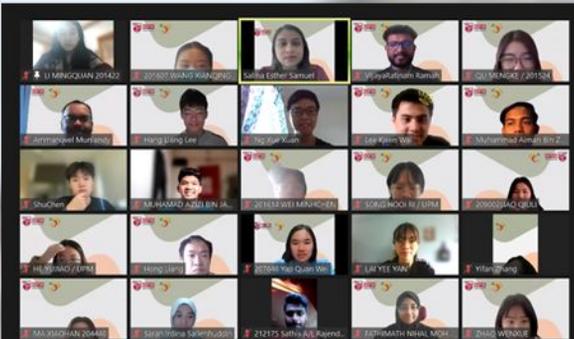


INFOGRAPHIC COMPETITION: POWERING A SUSTAINABLE WORLD

Submission Date: 18/4/2022-28/4/2022
Platform: Google Form & Facebook

<https://bit.ly/PESDAY2022>

Merit Faculty and E-certificate are provided



Infographic Competition: Powering A Sustainable World was organized by Lee Kwen Wai to aware the community of the ways to sustain the world from 18-28th April 2022. Persatuan Mahasiswa Fakulti Kejuruteraan (PEMAJU) in collaboration with IEEE Malaysia Section, IEEE Power and Energy Society (PESSBC UPM) and IEEE Women in Engineering (WIESB UPM) organized this competition where 3 winners were awarded for their wonderful work.



IEEE PES Day 2022

Reported by Haroon Rashid (iamharoon@ieee.org) & Mohammad Zohrul Islam (zohrul21@ieee.org)

“IEEE PES DAY 2022 QUIZ” in line with the theme “Powering a Sustainable Future” was organized by Sutehsan A/L B Gunasegaran in collaboration with Persatuan Mahasiswa Fakulti Kejuruteraan (PEMAJU), IEEE Malaysia Section, IEEE Power and Energy Society (PESSBC UPM) and IEEE Women in Engineering (WIESB UPM) on 23rd April 2022. This quiz competition consisted of 23 questions based on the given theme and facts of IEEE PES (Power & Energy Society) Day 2022.

IEEE PES DAY 2022 QUIZ
Platform: KAHOOT
Date & Time : 23 April 2022 (11am)
Faculty Merit and E-Certificate provided
Join our WhatsApp group to receive Quiz Code!
<https://chat.whatsapp.com/W7V377KuWgG9342xkPEzGI>
23 April 2022 11:00 AM

Prizes:
1st-RM30
2nd-RM20
3rd-RM10

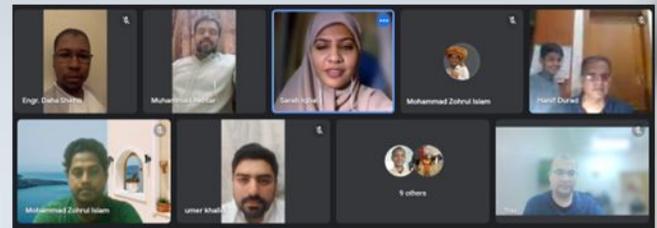
Universiti Malaya (UM)

Sarah Iqbal organized a webinar having two parts namely “IEEE Membership Benefits” and “The Impact of Automation and Control System of Building & Industry on Energy Conservation”. This event was organized on 6th May 2022 in collaboration with IEEE UM Student Branch, IEEE Malaysia KL Subsection, IEEE Young Professionals Malaysia, IEEE PES Malaysia, IEEE PES Malaysia Chapter, IEEE PES Young Professionals. Dr Haroon Rashid and Mr. Muhammad Akhtar presented the talk on google meet platform about the membership benefits and automation and control in energy conservation respectively.

Webinar: Impact of Automation and Control System of Building & Industry on Energy Conservation
Guest speaker: **Mr. Muhammad Akhtar**
Principle Scientist working in an Strategic Organization
Government of Pakistan
Lead Trainer Cyber Security NAVTECH
Lecturer UIIT And University (Visiting)

Sharing Session: IEEE Membership Benefits
Guest speaker: **Dr. Haroon Rashid**
Chair, IEEE Young Professionals Malaysia
Chair, IEEE Consultants Network Malaysia
Regional Lead, IEEE PES Day 2022
Regional Representative,
IEEE PES Young Professionals

06 May 2022 (Friday) 06:00 PM (GMT + 8) Malaysia



Multimedia University (MMU)

Curtin University Malaysia

SEMINAR
A2G Series Workshop:
The Future of Mobile Communications towards beyond 5G and 6G

PROF DR. MOHAMAD YUSOFF BIN ALIAS

- Professor at the Faculty of Engineering, Multimedia University in Malaysia
- Chair, IEEE Malaysia ComSoc/VTS Joint Chapter 2022

VENUE: HYBRID CURTIN SK3-103 | DATE: 12 MAY 2022 THU | TIME: 5:00 PM - 7:00 PM (MYT)

the registration form link: https://bit.ly/Future5G_6G

A hybrid programme was organized by Lim Min Ying namely A2G Series Workshop: The Future of Mobile Communications towards Beyond 5G and 6G. Prof Dr Mohamad Yusoff Bin Alias was the invited speaker in the collaborated event by IEEE Malaysia ComSoc/VTS Joint Chapter, IEEE Curtin University Sarawak SB, IET Multimedia University SB, IEEE Multimedia University PES SB on 12 May 2022 via Curtin University Sarawak and Webex.

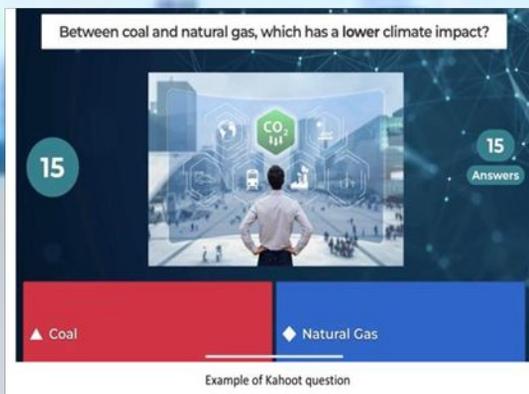


IEEE PES Day 2022

Reported by Haroon Rashid (iamharoon@ieee.org) & Mohammad Zohrul Islam (zohrul21@ieee.org)

Universiti Tenaga Nasional (UNITEN)

Nurul Afiah Syazana Binti Mohd Jafri organized two events including quiz and poster competition in conjunction with IEEE PES Day 2022. In the IEEE Kahoot Quiz Challenge “ Engineering & Sustainable energy” participants were required to answer the Kahoot questions and total six winners were selected based on the top score. Almost hundred participants enjoyed the quiz on 8th April 2022 in the online platform. She also organized IEEE Battery and E-Waste Recycling Poster Competition on 18th April 2022. Participants had to design posters following the theme of ‘Battery and E-Waste Recycling and submit via Google Form. Based on the design few participants were selected as the winners.



UPCOMING CONFERENCES

2022 IEEE INTERNATIONAL CONFERENCE ON
SEMICONDUCTOR ELECTRONICS (ICSE 2022)

15 - 17 AUGUST 2022

Virtual **ICSE 2022**
CONFERENCE



2022 IEEE Symposium on Wireless
Technology & Applications

Expanding Horizon Beyond Boundaries

17-18 August 2022, Virtual Conference



IEEE Malaysia Industrial Electronics /
Industrial Applications Joint Chapter

IEEE
POWERCON
INTERNATIONAL CONFERENCE
ON POWER SYSTEM TECHNOLOGY

**INTERNATIONAL CONFERENCE ON HEALTHCARE
ENGINEERING 2022 (ICHE2022)**

23rd to 25th September 2022

UPCOMING CONFERENCES



ICSIMA 2022

The 8th IEEE International Conference on Smart Instrumentation, Measurement and Application

Melaka, Malaysia
27 - 28 September 2022

IEEE INSTRUMENTATION & MEASUREMENT SOCIETY MALAYSIA CHAPTER



12th International Conference on Engineering Education (ICEED2022)
27th-28th OCTOBER 2022
KUALA LUMPUR



ICEESE2022

2022 IEEE 6th International Conference on Electrical, Electronics and System Engineering

27th – 28th October 2022
Kuala Lumpur, Malaysia



UPCOMING CONFERENCES



2022 IEEE 6th International Symposium on Telecommunication Technologies

14 - 16 November 2022 | Johor Bahru

Intelligent Connectivity for Sustainable World

The IEEE Symposium on Future
Telecommunication Technologies **2022**



14-16 November 2022, Kota Kinabalu, Sabah,
Malaysia

**2nd IEEE International
Conference on
Computing 2022
(ICOCO 2022)**

UPCOMING CONFERENCES

IEEE

USYS 2022

The 9th International Conference on



Underwater Systems Technology:

Theory and Applications

5 and 6 December 2022

Kuala Lumpur, Malaysia



Organised By



IEEE Oceanic
Engineering Society



IEEE Oceanic
Engineering Society
Malaysia Chapter

Co-Organised By



IECBES

IEEE-EMBS CONFERENCE ON
BIOMEDICAL ENGINEERING AND SCIENCES

IEEE

PECon 2022

POWER & ENERGY CONFERENCE

UPCOMING CONFERENCES

Interested to inspire, befriend and meet the industrial engineering and engineering management community? IEEM is definitely the event you should not miss
IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)

IEEM2022
KUALA LUMPUR, MALAYSIA
07 - 10 December 2022
www.ieem.org



2022 10th IEEE Conference on Systems, Process & Control (ICSPC2022)

17th December 2022, Malacca, Malaysia



2022
RFM
KUALA LUMPUR | DEC 18-20 2022



MCSoc 15th IEEE International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc-2022)
Universiti Sains Malaysia, Penang, Malaysia, December 19-22, 2022

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*TALENT IS LIKE
ELECTRICITY.
WE DON'T UNDERSTAND
ELECTRICITY,
BUT WE USE IT.*

- MAY ANGELOU -

”



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