



Participants at IEEE R10 EXCOM Meeting, Bangkok, Thailand

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### 2023 IEEE REGION 10 (ASIA-PACIFIC) EXCOM MEETING BANGKOK, THAILAND

After two years of virtual gatherings, the IEEE Region 10 executive committee finally convened in person on January 7, 2023, at the Conrad Bangkok Hotel in the bustling city of Bangkok, Thailand. *Contd. Page 4*



### First IEEE R10 Robotics Competition 2022

One of the major new initiatives of the IEEE Region 10 in 2022 was the launch of a regional-level robotics competition for students and young professional members. *Contd.. Page 5*

IEEE R10  
Annual General Meeting  
4-5, March 2023  
Ho Chi Minh City  
Vietnam

## IEEE Region 10 Newsletter

### Contact Us

For any query, feel free to mail the R10 Newsletter team at [r10-ecn@ieee.org](mailto:r10-ecn@ieee.org)

### Facebook

<https://www.facebook.com/IEEER10Connect>

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<https://www.linkedin.com/company/ieeer10connect/>



# IEEE R10 DIRECTOR'S MESSAGE

## EMERITUS PROF. CHUN CHE (LANCE) FUNG

Dear Readers and IEEE members in Region 10,

Welcome to the first edition of the 2023 IEEE R10 Newsletter.

First and foremost, I would like to thank Professor Mohammad Faizal Ahmad Fauzi for chairing the IEEE R10 Newsletter Committee (NLC) in the past four years, together with his team of dedicated volunteers. I thank the NLC members in 2022: Prashant R. Nair, Tridibesh Nag, Lau Bee Theng, Redwan Farhan, Wathmini Sharika, Garima Patel, Nabeel Masoodi, Naila Mukhtar, and Vaishali S., who served in various roles in the preparation of the many editions of R10 newsletter over the past year.

I welcome our 2023 IEEE R10 NLC Chair, Dr. Akila Wijethunge, who will lead another team of competent volunteers, including Dr Kevin Huang, Prashant R. Nair, Takefumi Yamada, Sajani Mayadunne, Kavinda Athapaththu, Anu Sabu, Charindu Abeysekara, Vaishali S and Akarsh Ashok. Thank you for their commitment, and we look forward to the fruits of their labor in the coming months.

In today's environment, Newsletter is a powerful and important communication tool between an organization and its members, as well as readers who are non-members. The IEEE R10 Newsletter provides valuable and relevant content from the Region to the readers.

**THE MISSION AND VISION OF IEEE REGION 10 ARE ALIGNED WITH THAT OF THE IEEE MEMBERSHIP AND GEOGRAPHICAL ACTIVITIES BOARD, THEY ARE:**

**TO INSPIRE, ENABLE, EMPOWER, AND ENGAGE MEMBERS OF THE IEEE**

To serve the members better, the region will focus on recruitment, retention, and rejuvenation; enhancing membership value and promoting member benefits; and, creating opportunities for participation and engagement in the coming activities.

To support the volunteers, the region will equip, educate, and engage them through the provision of training and upskilling opportunities.

The leaders in the region, are expected to serve and lead by example; initiate quality programs with impact and efficiency; and more importantly, exhibit ethical behavior professional performance, and accountability.

In the coming months, activities in IEEE Region 10 will be led by 30 experienced volunteers, as members of the 2023 R10 Executive Committee (ExCom), in various positions as Vice-Chairs, Committee Chairs, and members of the R10 Nomination and Advisory Committee. Each one of these leaders has a wealth of experience and organizational knowledge from different Organization Units (OU's) within IEEE. They all have served in diverse executive positions within Affinity Groups, Chapters, Sections, Councils, Region as well as Committees and Boards. The Committee Chairs have invited many dedicated volunteers for the planning and execution of projects within their respective committees. We will see the rollout of the activities, and their outcomes in the coming editions of the R10 Newsletters.

Last but not the least, our Region 10 Director 2021-2022, Deepak Mathur, has steered the Region from strength to strength through the challenges of the global pandemic. We congratulate him for being elected as the IEEE Members and Geographic Activities (MGA) Board Vice President-Elect 2023. He will assume his role as Vice President of the MGA Board in 2024, providing leadership and service to the IEEE members.

Thank you for reading and let's make IEEE Region 10, Ten out of Ten!

Lance Chun Che Fung  
IEEE Region 10 Director 2023-2024

# IEEE R10 NEWSLETTER CHAIR'S MESSAGE

## DR. AKILA WIJETHUNGE



Dear IEEE R10 Members and Readers,

As the newly appointed IEEE Region 10 Newsletter Chair, I am honored to have the opportunity to serve and connect with all of you. The goal of our newsletter is to provide valuable and relevant information about the activities and events conducted by IEEE R10, as well as to keep you informed about the latest opportunities and activities in the interest of the membership.

I believe that this newsletter can serve as an important tool for fostering communication and collaboration among our regional IEEE Members and beyond. I aim to make sure that every issue is packed with informative and engaging content that will keep you informed and inspired by IEEE R10 activities.

My team and I are dedicated to making IEEE R10 Newsletter a success while providing a platform to share directives and plans of IEEE R10 for the benefit of the IEEE vision and mission. We welcome articles for IEEE R10 Newsletter for our upcoming issues from IEEE Sections, Subsections, Councils, and other IEEE Operation Units through our [website](#).

I encourage you to reach out to me or my team if you have any suggestions, feedback, or ideas for future newsletter content. We are always eager to hear from you and make this newsletter the best it can be.

I am looking forward to a productive and successful journey together.

Warm Wishes

Dr. Akila Wijethunge

IEEE R10 Newsletter Chair 2023

r10-ecn@ieee.org

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### IEEE R10 NEWSLETTER COMMITTEE 2023

#### Editor-in-Chief

Dr. Akila Wijethunge

#### Managing Editors

Dr. Tao (Kevin) Huang

Dr. Prashant R. Nair

Takefumi Yamada

Anu Sabu

Sajani Mayadunne

#### Web and Design Leads

Kavinda Athapaththu

Charindu Abeysekera

Vaishali S

Akarsh Ashok

IEEE R10  
NEWSLETTER

Call for Articles

<https://newsletter.ieeer10.org/submission/>



Deadline: 15 March 2023

# 2023 IEEE REGION 10 (ASIA-PACIFIC) EXCOM MEETING BANGKOK, THAILAND

On January 6, the members of the R10 EXCOM gathered for a pre-meeting dinner ahead of the R10 EXCOM meeting. The dinner included both incoming and outgoing members of the R10 EXCOM. This pre-meeting provided a chance for a seamless and efficient transfer of R10 programs from the 2021-2022 EXCOM members to the incoming EXCOM members. The dinner also served as a platform to highlight the success of R10 projects in 2021-2022 and to discuss plans for the 2023-2024 R10 EXCOM term. Discussions during the dinner focused on key lessons learned in 2021-2022 and new ideas for initiatives in 2023-2024, with the handover between new and past committee chairs playing a central role.

The 2023 R10 EXCOM meeting on 7 January 2023 was headed by the 2023-2024 IEEE R10 Director, Prof. Lance Fung, and the R10 Secretary, Dr. Michael Ling Chuen Ong, with the participation of the R10 Operations Committee and members from both the 2021-2022 and 2023-2024 IEEE R10 EXCOM.

Prof. Lance Fung opened the meeting with a welcome speech, followed by a welcome address from Thailand Section Chair Pongsakorn Yuthagovit. The 2022 R10 updates were presented by the R10 Past-Director, Mr. Deepak Mathur, who shared the achievements of R10 and highlighted major projects such as R10Talk and the R10 Robotics Competition.

R10 EXCOM members for the year 2021/2022 presented their reports of past activities with remarkable contributions from the volunteers. The plans for the year 2023 were presented by seventeen committee chairs of the 2023 R10 EXCOM, including the vice chairs of the Membership Activities Committee, Professional Activities Committee, and Technical Activities Committee. The valuable comments shared by R10 EXCOM members, including the R10 Advisory Committee, will undoubtedly contribute to the success of the mission of IEEE. IEEE R10 will continue to provide great service to its membership with its well-structured plans for the coming year.

Special remarks on the 2023 IEEE Sections Congress, R10 Advisory and Nomination, Financials, and Budgets, and R10 Annual General Meeting were made before adjourning the meeting. The remarks given on the plans for 2023 were insightful and showed a clear desire by all the members of IEEE R10 to make a positive impact in their respective roles.

## 2023-2024 IEEE R10 EXCOM MEMBERS

R10 Director/Delegate	Emeritus Prof. Chun Che (Lance) Fung
R10 Past Director	Mr. Deepak Mathur
R10 Director Elect	Prof. Takako Hashimoto
R10 Secretary & Sections Congress 2023 Coordinator	Dr. Michael, Ling Chuen Ong
R10 Treasurer	Dr. Nia Kurnianingsih
R10 Vice-Chair of Members Activities	Prof. Preeti Bajaj
R10 Vice-Chair of Professional Activities	Dr. Zia Ahmed
R10 Vice-Chair of Technical Activities	Prof. Takao Onoye
2023 R10 Awards & Recognition Committee Chair	Prof. Jing Dong
2023 R10 Conference & Technical Seminar Committee Chair	Prof. Jong Chang Yi
2023 R10 Conference Quality and Management Committee Chair	Dr. Sameer S. M.
2023 R10 Educational Activities Committee Chair	Dr. Chi-Un Lei
2023 R10 History and Individual Benefits Services Committee Chair	Mr. Harry McDonald
2023 R10 Humanitarian Technology Activities Committee Chair	Ms. Emi Yano
2023 R10 Industry Relations Committee Chair	Mr. Sanjay Kar Chowdhury
2023 R10 Information Management Committee Chair	Mr. Vijay S Paul
2023 R10 Life Members Committee Chair	Mr. Rajendra K. Asthana
2023 R10 Membership Development Committee Chair	Prof. Rajendrasinh Jadeja
2023 R10 Newsletter Committee Chair	Dr. Akila Wijethunge
2023 R10 Professional Activities Committee Chair	Dr. Daniel Eghbal
2023 R10 Section & Chapter Committee Chair	Dr. Amit Kumar
2023-2024 R10 Strategic Planning & New Initiatives Committee Chair	Prof. Takako Hashimoto
2023 R10 Student Activities Committee Chair	Dr. Jennifer Chua Dela Cruz
2023 R10 Student Representative	Ms. Warunika Hippola
2023 R10 Women In Engineering Committee Chair	Dr. Khanita Duangchaemkarn
2023 R10 Young Professionals Committee Chair	Dr. Saaveethya Sivakumar
2023 R10 Zone Representative (North Asia)	Dr. Seishi Takamura
R10 Advisory Committee	Prof. Akinori Nishihara
R10 Advisory Committee	Prof. Kukjin Chun
R10 Advisory Committee	Dr. Janina Mazierska
R10 Advisory Committee	Prof. Toshio Fukuda

Discussions at IEEE R10 EXCOM Meeting





# FIRST IEEE R10 ROBOTICS COMPETITION 2022

**Dr. Zia Ahamed, Vice Chair IEEE R10 Professional Activities**

One of the major new initiatives of IEEE Region 10 in 2022 was the launch of a regional-level robotics competition for students and young professional members. The main objective of the R10 Robotics Competition is to create awareness among its young members about the importance of technology for solving real-world problems by harnessing their creativity and capabilities. The competition also aims to promote STEM education among the younger generation. Besides stimulating technical ingenuity, the competition also aims to help all participants to polish their professional and personal skills.

The theme for the inaugural year of the competition was “Robotics for Healthcare”. The competition had the following categories:

- Modeling and Simulations for Robot Development (for undergraduate students),
- Robot Development in hardware (for undergraduate students)
- Robot Development in hardware (for postgraduate students and young professionals).
- Innovative Robots Development for Healthcare and Humanitarian Applications (for all IEEE student members and young professionals)

A team of dedicated volunteers (<http://robocomp.ieeer10.org/team/>) worked hard throughout the year to make the new initiative a grand success. The successful organization of the robotics competition, which finished on 17 and 18 December 2022 with final rounds at the Faculty of Engineering, Chulalongkorn University in Bangkok, Thailand, was a momentous achievement for R10.

The 2022 R10 Robotics Competition was organized in three stages. Stage 1 of the competition was organized by local IEEE Sections to select and nominate the best team(s) to go forward in the online R10 competition in Stage 2. For Stage 1, IEEE Sections were also funded to organize robotics activities such as workshops and technical talks for members as well as non-members. Sections were encouraged also to hold robotics hands-on workshops and competitions for school children to inspire young students to pursue STEM. Stage 2 of the competition was held, at R10 Level, as an online event for the evaluation and selection of teams by a panel of judges for the final rounds.

The final round of the 2022 R10 Robotics Competition on 17 and 18 December 2022 at the Faculty of Engineering, Chulalongkorn University was also attended by high school students.

## THE WINNERS OF THE 2022 R10 ROBOTICS COMPETITION WERE:

First Place: Project “Collaborative Ground-Aerial Multi-Robot Systems for Disaster Response Mission” of University of Moratuwa, Sri Lanka

Second Place: Team Hand-E-Assist of Salim Habib University, Karachi, Pakistan

Third Place (two winners):

(a) Project “Cu Passive Ultrasound Manipulator” of Chulalongkorn University, Thailand

(b) Project “Human Assistive Hand Robot” of Sukkur IBA University, Sukkur, Pakistan



IEEE R10 Robotics Competition Winners with R10 Director

IEEE R10 Robotics Competition Finalists



The ten teams selected to compete in the final round were:

- (1) Student members Ranga Anurag, Pranoop G, CSS Narayana, and Srimedha Kulkarni from the Matrusri Engineering College, Hyderabad, India (IEEE Hyderabad Section),
- (2) Student members Belde Nikitha, Sai Varma Poloji, Gangarapu Poojitha, and Vaibhav Chandra Keerthi from the Matrusri Engineering College, Hyderabad, India (IEEE Hyderabad Section),
- (3) Student members Wahyu Alfani, Muhammad Sofyan Karim, Arokib Darjat Saputra, and Eva Natalia Pramesti from Universitas Dian Nuswantoro, Indonesia (Indonesia Section),
- (4) Student members Mahnoor Maqsood, Adam Jeraj, and Mudassir Rafiq from the Salim Habib University, Pakistan (Karachi Section),
- (5) Student members Adarsh, Afaq Hussain, Abdul Kubar, and Dheeraj Parkash from the Sukkur IBA University, Pakistan (Karachi Section),
- (6) Student member Arkaprovo Acharya, Sabarno Biswas, and Ayush Roy from Jadavpur University, Kolkata, India (Kolkata Section),
- (7) Student members Veelochana Sigera, Buddhika Wijerathne, Charuka Samarakoon, Sanath Thilakarathne, Eranda Wijerathna from the University of Ruhuna, Sri Lanka (Sri Lanka Section),
- (8) Student members Deepana Ishtaweera, Shalutha Rajapakshe, Dilanka Laknath Wickramasinghe, Sahan Hasaranga Gurusinghe from the University of Moratuwa, Sri Lanka (Sri Lanka Section),
- (9) Student members Zahid Ullah, Krit Sanguannaporn, Rodolfo Lian Paderon, and Noppawan Srihirin from Chulalongkorn University, Thailand (Thailand Section)
- (10) Student members Wasutha Chuengwutigool, Siwakorn Opasjirawiroj, Taetiya Taechamatavorn, and Narit Chatchawanchockchai from Chulalongkorn University, Thailand (Thailand Section).

## FINAL ROUNDS OF R10 ROBOTICS COMPETITION: ROBOTICS FOR HEALTHCARE

**Assoc. Prof. Supavadee Aramvith, Ph.D.,  
Organizing Committee Chair**

The final round of the IEEE Region 10 Robotics Competition 2022 with the theme “Robotics for Healthcare” has been conducted successfully at the Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand, between 17 – 18 December 2022.

The event is co-organized by the IEEE Thailand Section, Department of Electrical Engineering, International School of Engineering, Chulalongkorn University, and IEEE Robotics and Automation Society Thailand Chapter with 117 participants from 5 countries.

The event started with a welcome message from Prof. Dr. Tawatchai Charinpanitkul, Associate Dean, Faculty of Engineering, Assoc. Prof. Dr. Naebboon Hoonchareon, Head, Department of Electrical Engineering, Mr. Pongsakorn Yuthagovit, Chair, IEEE Thailand Section, Mr. Deepak Mathur, IEEE Region 10 Director, with a report on technical program from Assoc. Prof. Dr. Supavadee Aramvith, Vice Chair, IEEE Thailand Section.

The technical program features two keynote talks: “Robot for medical applications,” by Prof. Viboon Sangveraphunsiri, Chulalongkorn University, and “Medical robotics research at Mahidol University,” by Dr. Branesh M. Pillai, Department of Biomedical Engineering, Mahidol University. There are two invited technical talks: “Research and development in hospital automation” from Assoc. Prof. Dr. Supachai Vongbunyong from KMUTT, and “Mobile robots and autonomous vehicle: standards and testing,” by Dr. Pasan Kulvanit, Department of Science Service, Ministry of Higher Education, Science, Research, and Innovation. The final round of the competition consists of a pitching and poster demonstration led by Asst. Prof. Dr. Thavida Maneewarn, local technical program chair.



Guests of IEEE R10 Robotics Competition Final Round



For pitching, each team has 7 minutes to present on-stage. The presentation covers the technical aspects, design methodology, innovative features, commercialization prospects, demonstration, and Q&A. The score on this part is 30%. The poster presentation has 70% of the total score while each team will explain, and the judges will have 3 hours to evaluate the merits of each team.

Apart from the final round, there is a local pre-university student workshop on jumping-legged robots organized by Assist. Prof. Dr. Ronnapee Chaichaowarat, International School of Engineering, Chulalongkorn University. 49 pre-university students participated from 7 schools (Saint Gabriel's college, Panyaprateep, Darunsikhalai School for innovative learning, Satit Panyapiwat Institute of Management, Suankularb Wittayalai, and Srinakharainwirot University Prasarnmit Demonstration school (secondary). The workshop consists of a lecture on designing the jumping-legged robot and the rounds of competition in which robots take the fastest time to reach the finish line. For the results, the 1st place is Saint Gabriel's college. The 2nd place is Darunsikhalai School for innovative learning. The 3rd place is Suankularb Wittayalai.

The competition concludes with an award ceremony. The organizer thanks Mr. Deepak Mathur, 2021-2022 IEEE Region 10 Director, and Dr. Zia Ahmed, 2021-2022 IEEE Region 10 Vice-Chair of Technical Activities for the initiative of the first-ever IEEE Region 10 Robotics Competition. The appreciation goes to Dr. Akila Wijethunge and the local organizing team lead from IEEE Thailand Section: Assoc. Prof. Dr. Supavadee Aramvith, Asst. Prof. Dr. Thavida Maneewarn, Asst. Prof. Dr. Ronnapee Chaichaowarat, Dr. Khanita Duangchaemkarn, and students and staff from Chulalongkorn University.

*Judging and Project Demonstration at the Competition*



## IEEE R10 COMMITTEE CHAIRS' MESSAGES

### IEEE R10 CONFERENCE QUALITY AND MANAGEMENT COMMITTEE

COMMITTEE CHAIR: DR. SAMEER S. M.



***“As Region-10 CQM Chair, it is my privilege to help you to organize conferences that meet IEEE quality standards for procedures and publications. Please reach out to me at sameer@nitc.ac.in in case you are a conference organizer from Region 10. Region 10 organizes the most conferences among all regions. While we make several attempts to ensure quality, it is always a concern”***

I am working as a professor and dean (academic) at NIT Calicut, India. I have served as the Chair of the IEEE Kerala Section during 2018–19 and Secretary of Region 10 during 2021–22. The CQM committee members are Prof. Cheon Won Choi, South Korea; Prof. Zhanyu Ma, China; Mr. Ambarish Natu, Australia; Prof. Fitri Yuli Zulkifli, Indonesia; Prof. Lamia Iftekhar, Bangladesh; Prof. Bijoy A. Jose, India; Prof. Jong Chang Yi, South Korea; and Dr. Michael Ong, Singapore.

The broad objectives of the R10 CQM Committee are to:

1. Develop strategies and guidelines to address issues related to conference quality and management in R10.
2. Liaise with the IEEE Conferences Committee, IEEE Conference Quality Committee, MGA, and TAB on issues related to conference quality and management.
3. Work with IEEE MCE to roll out conference education to the section leadership and conference organizers and to provide training needs early in the organizing process to support better outcomes.
4. Open dialogue with conference organizers and conference sponsors in R10 organizational units concerning conference quality matters.

The committee plans to take up the following projects in 2023:

1. Promote sections and councils in R10 to create the Conference Application Review Committee (CARC) to review and support technical and financially sponsored conferences.
2. Plan conference leadership training programs on the fringes of R10 flagship conferences and assist Sections in organizing workshops for conference organizers.

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## IEEE R10 ETHICS AWARENESS AND ADVANCEMENT COMMITTEE

COMMITTEE CHAIR:  
DR SUDEENDRA KOUSHIK



***“Ethics is the fundamental, hygiene factor on which every good is built on. This is the personal fabric through which we weave all our contributions to society through IEEE”***

The role of this committee is to make our volunteers and partners aware of how crucial and non-negotiable ethics is, in all our endeavors. The committee intends to build awareness and advance this across all our volunteers, members, and partners in a phased manner. The committee is building a plan to build awareness through gamified training modules and instill pride in having our members take a pledge subsequently. We would like to instill pride in our valued members to be aware of what and how to integrate the IEEE code of ethics into our day-to-day activities.

The committee is comprised of Dr. Siva Reddy (Convenor), Dr. Takako Hashimoto, Dr. Suresh Nair  
Prof. Mousmi Ajay Chaurasia



## IEEE R10 HISTORY AND INDIVIDUAL MEMBER BENEFITS COMMITTEE

COMMITTEE CHAIR:  
HARRY MCDONALD



***“The R10 history committee promotes the collection, writing, and dissemination of historical information in the fields covered by R10 IEEE technical and professional activities”***

I am Harry McDonald a retired electrical engineer from Perth, Australia, and have been an active IEEE volunteer in many roles for 40 years. The other members of the R10 History and IMB 2023 committee are:

- Prof Jong Chang Yi from Hongik University, South Korea. He is also the past chair of the History and IMB committee.
- Dr. Masayuki Shigematsu is the Chief Engineer from Sumitomo Electric Industries, Ltd. Japan and is a welcome addition to the committee.

Other regional volunteers are needed to broaden the outreach of our rich regional history.

- Recording the R10 history on the R10 web page will take the highest priority. The IEEE Milestones and status/updates of any pending milestone applications will feature. This is ongoing work throughout 2023.
- A new initiative called ‘stepping stones’ will be trialed in R10. This idea has been used in another IEEE region. It is a similar achievement to milestones without the 25-year minimum service. The intention is to launch this after the IEEE R10 AGM in March.
- Any opportunities to promote region-wide individual IEEE member benefits will be pursued. These however tend to be more localized or national.
- Encouragement of other IEEE OUs to record their local history.

## IEEE R10 HUMANITARIAN TECHNOLOGY ACTIVITIES COMMITTEE

COMMITTEE CHAIR:  
EMI YANO



***“Working together for our future. IEEE's professional and diverse community is a strength for promoting sustainable development and humanitarian activities”***

The mission of the Region 10 Humanitarian Technology Activities (HTA) committee is to inspire professionals and engineers to become socially responsible and be engaged in developing technological solutions, which are cost-effective and sustainable; improving conditions and livelihood of people thus making a difference in people’s lives.

Our objectives are:

1. Encourage IEEE members, students, young engineers, and WIE members to work in the Humanitarian Technology areas, especially at the regional level.
2. Encourage Sections in R10 to support and contribute to the Humanitarian Technology areas.
3. Create awareness and increase the visibility of Region 10 HTA among the IEEE local volunteers regarding the significant use of technology for humanitarian purposes through both online and in-person sessions by experienced SIGHT Volunteers/International Humanitarian Organizations.

We are planning 4 projects in the areas of Engagement, Funding, Visibility Enhancement, and Awards in 2023.

I am delighted to work with my subcommittee members, SIGHT group chairs, and members in region 10 who are interested in Humanitarian Technology Activities.

## IEEE R10 INFORMATION MANAGEMENT COMMITTEE

COMMITTEE CHAIR:  
VIJAY S PAUL



*“Effective management and dissemination of information are necessary for shaping the experience of our members and volunteers. I look forward to enriching this experience for the IEEE community”*

The R10 Information Management Committee (IMC) is tasked with managing all forms of electronic media (including website and social media), collecting valuable data, and protecting stored information, related to R10 and its sub-units, for timely, effective, and efficient dissemination of information.

The committee is responsible for facilitating the sharing of up-to-date information about R10 programs policies, procedures, and IEEE in general, to its volunteers and members in the Region.

The Chair, in particular, is also responsible for the creation and execution of an Information Management Strategy for the R10 website that advises on the complete lifespan of information - acquisition, ownership, audience, distribution, archiving and deletion.

For 2023, R10 IMC has primarily three projects planned:

- Start and maintain an active Instagram channel for Region 10
- Increase web accessibility of the R10 website.
- IMC Workshops - Workshops on IEEE Brand Guidelines, using R10 Event Funding Portal, WordPress basics, UX writing for the website, Tools for IM & Project Management, etc.

## IEEE R10 LIFE MEMBER COMMITTEE

COMMITTEE CHAIR:  
RAJENDRA KUMAR  
ASTHANA



*“To keep Life Members of Region 10 involved in IEEE by way of online & offline activities including competitions, involving them in conferences and recognizing them through awards at the Region and MGA levels”*

The current committee has members from Tokyo, Delhi, Taipei, South Australia, and Gujarat. We are looking forward to adding members from other countries.

Major objectives are the formation of new Life Members Affinity Groups, encouraging LMAGs to engage Life Members in activities, organizing periodic LM/LMAG Meets across R10, organizing LMC and R10 LM Competition/Awards, and continuing LM tracks in R10 flagship conferences.

The committees plan for 2023 includes:

- Formation of two new LMAGs in R10,
- Organization of a minimum of 3 LMAG meets involving Committee members, 3 LMAG meets involving the maximum possible R10 LMAGs,
- Holding at least one LM coordinator meeting for Sections/Councils which do not have any LMAG,
- Issue call for Nominations for the R10 LM outstanding LM Volunteer award (Award is Plaque),
- Inviting entries from R10 LM for the Photography Competition (Cash Prize of \$200 in each of the two categories),
- Calling nominations on behalf of the MGA Life Member Committee for the Regional LMAG Achievement Award (Award is Plaque + \$500 for future LMAG activities), and Regional IEEE LM Individual Service award (Plaque)
- Selecting a global winner out of 10 Regional awardees. Global LMAG Achievement Award will be a Plaque with a \$2000 cash reward and traveling expenses and Global Individual Service Award will be a Plaque and traveling expenses.
- Funding student activities in Region 10 from MGA LM Fund up to \$1500
- Organizing Life Member track in R10 flagship Conferences like TENSYP in Australian Capital Territory, HTC in Gujarat, and TENCON in Chiang Mai, Thailand.

## IEEE R10 PROFESSIONAL ACTIVITIES COMMITTEE

COMMITTEE CHAIR:  
DR. DANIEL EGHBAL



***“The 2023 Professional Activities Committee (PAC) will be a diverse team of experienced IEEE volunteers across Region 10 sections and welcome passionate volunteers who would like to get involved in the development of Professional Activities”***

Dr. Daniel Eghbal (IEEE Queensland Section, Australia) will lead the 2023 PAC. PAC members, as of January 2023, are Dr. Sudipta Chakraborty (New South Wales Section, Australia), Ashwini Holla (IEEE Bangalore Section, India), and Dr. Thavatchai Tayjasanant (IEEE Thailand Section, Thailand).

The 2023 Professional Activities projects are designed to:

1. Maintain and enhance IEEE members’ lifelong employability and career prospects,
2. Support activities to strengthen industry engagement and generate new ideas on emerging topics such as climate change and energy transition,
3. Support IEEE Future Direction Forum workshops,
4. Foster collaboration with other business units to organize events benefiting members across societies. The PAC has already been liaising with Industry Relations, Educational Activities, and Young Professionals to align the PAC projects with other initiatives.

Full details of the PAC projects will be presented at the IEEE Region 10 Annual Meeting in Ho Chi Minh City, Vietnam on 4-5th March 2023.

If you are interested to get involved, please email [daniel.eghbal@ieee.org](mailto:daniel.eghbal@ieee.org)

**IEEERegion10**  
Professional Activities Committee

## IEEE R10 SECTION AND CHAPTER COMMITTEE

COMMITTEE CHAIR:  
AMIT KUMAR



***“Upliftment and Growth of Sections and Technical chapters in Region 10 is the actual growth of IEEE Region 10. SC committee strives to collaborate and strengthen R10 Sections and Chapters to create and sustain more and more Volunteer Leadership positions”***

The 2023 Section chapter committee is chaired by Amit Kumar from IEEE Hyderabad Section, who has been a long-term IEEE Volunteer. The team is very diverse and spread across several R10 geographies from several R10 Sections. 2023 SC committee members include Zuhaina Zakaria from IEEE Malaysia Section, Abhishek Appaji from the IEEE Bangalore section, Vamsi Krishna J from IEEE Hyderabad Section, and Kojiro Nishimiya from the IEEE Tokyo section. The committee has very experienced Advisors: Takako Hashimoto, IEEE Region 10 Director-Elect 2023-2024, and Supavadee Aramvith, IEEE 2023 MGA Chapter Support Committee Chair.

Section Chapter committee aims to support and work with IEEE Region 10 Sections and Technical chapters to help them start new organizational units and run the existing OUs. SC committee will run the third edition of its flagship program, R10 Section Chapter Symposium. This committee aims to work with Subsections directly under IEEE Region 10 and support their upliftment and functioning. SC committee will also organize special sessions at R10 flagship conferences and create awareness of section chapter activities and possible support mechanisms for IEEE Organizational units. SC committee will continue organizing Inter-Regional programs, and best practices sharing sessions for Section leaders and will work towards strengthening the Section chapter coordinators in Region 10 sections.

## IEEE R10 STUDENT ACTIVITIES COMMITTEE

**COMMITTEE CHAIR - PROF. JENNIFER CHUA DELA CRUZ**  
**STUDENT REPRESENTATIVE - MS. WARUNIKA HIPPOLA**



IEEE Region 10 Student Activities Committee (R10 SAC) is the committee under the Region 10 Executive Committee, which is focused on the development of the student members across IEEE Region 10. Being one of the largest regions of IEEE, Region 10 SAC caters to more than 1750 Student Branches, 69 Sections, and 60000 student members.

To address the key areas of focus, R10 SAC consists of a team comprising a diverse and vibrant group of volunteers who have performed extraordinarily in their volunteer careers. Collectively, the team is dedicated to bringing support and creating opportunities for student membership.

In 2023, The major focuses of R10 SAC are the revival and closure of Student Branches and student outreach. Our goal is to increase the number of students applying for student-centered opportunities delivered by IEEE. R10 SAC has a range of activities lined up for the year 2023 and we are excited to share the news soon. The major activities for 2023 include;

- Awards and recognition for the volunteers and Student Branches of IEEE Region 10.
- Funding support for Section Student Activities Committees and Student Branches for student activities under two major categories: Section Student Branch Revival Fund (SSBR) and Membership Development and Leadership Training Fund (MDLT)
- Recognize technically skilled students across IEEE Region 10 with contests: IEEE Region 10 Student Research Paper Contest and IEEE Region 10 Undergraduate Project Video Contest.
- Organize training and webinar programs for students in IEEE Region 10.
- Closely monitor the activities of Section Student Activities Committees and Student Representatives and provide support.

For any query regarding student activities  
 please contact us at: [r10sac@ieee.org](mailto:r10sac@ieee.org)  
 Web: <https://sac.ieeer10.org/>

**IEEERegion10**  
 Student Activities Committee

## IEEE R10 STRATEGIC PLANNING AND NEW INITIATIVES COMMITTEE

**COMMITTEE CHAIR- TAKAKO HASHIMOTO**  
**(IEEE R10 DIRECTOR-ELECT)**



*"I look forward to working with all of you as SP/NI Committee Chair and R10 Director-elect to contribute to the community through technology for the brighter future of IEEE R10"*

With approximately 150K members, IEEE R10 continues to grow even under the challenging situation and is the largest, the most diverse, and one of the most important regions in IEEE. The SP/NI Committee aims to promote the growth and successful operations of R10 through strategic planning by

1. supporting "new initiatives" through Strategic Planning and New Initiatives Fund Scheme,
2. encouraging more members/non-members to participate in R10 activities,
3. launching a successful region realignment

Committee Members: Seishi Takamura, Nia Kurnianingsih, Basabi Chakraborty, Harry McDonald, Parkash Lohana, Nirmal Nair

The SP/NI Committee will work with the above excellent committee members to deliver new values to R10 members and explore strategic solutions to a variety of issues, including regional realignment.

## IEEE R10 WOMEN IN ENGINEERING COMMITTEE



**COMMITTEE CHAIR:**  
**KHANITA DUANGCHAEMKARN**  
PHARM.D., PH.D

***“Bridging the gender gap and encouraging overall diversity in the engineering field is important. Gender equality improves both scientific and financial outcomes which is a benefit to advancing technology for humanity”***

As a post-pandemic year in 2023, WIE will encourage more face-to-face activities among region 10 WIE members and affinity groups. WIE will also continue to support local WIE AG, especially the joint organizing activities between two or more different OUs. The objective is to promote the diversity and inclusion of WIE members in technical fields and international regions other than region 10.

In region 10, WIE is the professional home of 28,346 WIE members, which contributes to 73% of the total WIE members around the world. While most of our members are students, empowering them is the most important task that WIE aims to highlight. To overcome gender bias in a STEM career, WIE is planning to shine a spotlight on our outstanding WIE members through awards and recognition campaigns. By focusing on public visibility, we believe that it will be a smart move to highlight excellence and challenge negative stereotypes about gender equality in science and engineering.

In the 2023 Committee, we have diverse and high-quality volunteers to help drive Region 10 Women in Engineering Pooja Sharma K (IEEE Madras Section), Beena Ahmed (IEEE NSW Section), Emi Yano (IEEE Tokyo Section), Vimontha Khieovongphachanh (IEEE Laos subsection), Aishwarya Bandla (IEEE Singapore Section), Terumi Umematsu (IEEE Tokyo Section), Ramneek Kalra (IEEE Bombay Section)

To stay in touch with our activity plans, please follow IEEE Region 10 Women in Engineering Facebook at <https://www.facebook.com/IEEE.R10.WIE> and Instagram at @ieeer10wie. We hope to have your continuous support!

## IEEE R10 YOUNG PROFESSIONALS COMMITTEE



**COMMITTEE CHAIR:**  
**DR. SAAVEETHYA SIVAKUMAR**

***“Our mission is to enhance the IEEE Region 10 young professionals' network by enabling our members to assess their career objectives by constructing a diverse professional platform”***

As the IEEE Region 10 Young Professionals (R10 YP) committee, we collaborate and strive to significantly help young professionals to evolve and acquire excellent technical, professional, communication, and leadership skills through our structured plans of activities and events, including funding and grants, recognitions, flagship career, and professional development programs. The following are the programs planned for 2023;

- R10 YP Upskill
- R0 YP AG Special Support Fund
- Career and Leadership Aid Program
- Early Career Grant
- IEEE Standards Webinar Series
- YP Awards
- R10 YP Affinity Group (AG) Supervision
- IEEE R10 Internship program

Upon the success of CLAP 2021 and 2022, this year, IEEE R10 YP Committee is planning to host CLAP physically in collaboration with a selected local YP AG. A call for proposals will be circulated to identify the local YP AG for hosting CLAP 2023. Affinity groups will be clustered into sub-zones (north, south, east, and west), as such close supervision will be conducted within each of the sub-zones. This year, IEEE R10 YP is proud to introduce the R10 Internship Program and Early Career Grant to support YPs in their career and professional growth.

Together we, the R10 YP Committee, find a genuine feeling of attainment by being able to create a difference in the IEEE YP Community.

Stay Connected with us via:  
Website: <https://yp.ieeer10.org/>  
Facebook: <https://www.facebook.com/ieeer10yp/>  
Instagram: <https://www.instagram.com/ieeer10yp/>

## IEEE R10 EDUCATIONAL ACTIVITIES COMMITTEE

COMMITTEE CHAIR: CHI-UN LEI, LEON



*"Education is the foundation for a successful future and should never be taken for granted. Educational activities in IEEE provide members with opportunities to achieve success in technology advancement"*

Greetings! I am Dr. Chi-Un Lei, Leon, from the University of Hong Kong. I am the Chair of EAC 2023. The EAC comprises a diverse and talented team of enthusiasts on educational development. The committee assists and supports Region OUs in organizing educational activities (EA) through development grants. Theme-based grants will be provided for EAs on SDG education or IEEE Learning Network. Cross-Section EA activities are encouraged. We also provide training and professional development on organizing and managing EAs. Furthermore, the committee also publicizes educational opportunities available from IEEE to student members, professional members, and the public in the Region. For more details, please visit <https://ea.ieeer10.org/> or <https://fb.me/ieee.r10.ea>.

### R10 Educational Activities (EA) Project Development Grant

IEEE R10 EA Project Development Grant 2023 are open for applications. Please check the following link for more details:

<https://ea.ieeer10.org/general-track/> (General Track)

<https://ea.ieeer10.org/theme-based-track/> (Theme-based Track)

#### Important dates

Submission Deadline: 18 March 2023

Announcement of Shortlisted Projects: 30 April 2023

Duration of Project Implementation: 30 April 2023- 1 September 2023

Duration of Reporting and Expense Claiming: 1 September 2023

### IEEE R10 AD HOC COMMITTEE CHAIRS 2023

- Climate Change Ad Hoc Committee Chair, Prof. Shaikh Fattah
- Philanthropy Initiatives Ad Hoc Committee Chair, Dr. Paulina Chan
- Volunteers Upskills and Empowerment Ad Hoc Committee Chair, Prof. Mousmi Chaurasia
- Diversity, Equity and Inclusion Ad Hoc Committee Chair, Dr. Khanita Duangchaemkarn
- Conference Steering Ad Hoc Committee Chair, Prof. Jong Chang Yi

### IEEE REGION 10

- NO. 1, FUSIONOPOLIS WALK #04-07, SOUTH TOWER, SOLARIS, SINGAPORE 138628
- +65 6778 2873
- +65 6778 9723
- [HTTPS://IEEER10.ORG](https://ieeer10.org)
- FOR VOLUNTEER SUPPORT: EWELL TAN
- FOR MEMBERSHIP ENQUIRY: IEEE SUPPORT CENTER



# UPCOMING IEEE R10 CONFERENCES

# Call for Papers and Proposals **TENSYMP 2023**

6-8 September 2023 | Canberra, Australia



IEEE Australian Capital Territory Section



2023 IEEE Region 10  
Symposium

[tensymp2023.org](https://tensymp2023.org)

**TENSYMP 2023**

Technology for an Autonomous World

#### General Chairs

- Ambarish Natu  
Australian Government, Australia
- Xiuping Jia  
University of New South Wales, Australia

#### Program Chair Coordinator

- Hoe Tan  
Australian National University, Australia

#### Track Chairs

- Lily Qiao - Aerospace, Autonomous & Electronic Systems  
University of New South Wales, Australia
- Hieu Nguyen - Photonics, EDS & Nanotechnology  
Australian National University, Australia
- Hemant Singh - Computational Intelligence  
University of New South Wales, Australia
- Huadong Mo - Systems, Man and Cybernetics  
Australian National University, Australia
- Anthony Jones - Computer  
Australian Government, Australia
- Fei Ma - Signal Processing & Communications  
Australian National University, Australia
- Iman Shames - Control Systems  
Australian National University, Australia
- Yiqing Guo - Geoscience and Remote Sensing  
Commonwealth Scientific and Industrial Research  
Organisation, Australia
- David Powell - Antenna & Microwave Techniques  
University of New South Wales, Australia
- Chaturika Mediwaththe - Power and Energy  
Commonwealth Scientific and Industrial Research  
Organisation, Australia

#### Women in Engineering Chair

- Jihui (Aimee) Zhang  
Australian National University, Australia

#### Student Activities Chair

- Thien Truong  
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#### Young Professionals Chair

- Vamsi Krishna Jadhala  
TIE Hyderabad, India

#### Life Member Activities Chair

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#### Awards Chair

- Fouad Karouta  
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#### Publications Chair

- Hwa Chiang Leo  
IEEE, Singapore

#### Local Arrangements Chair

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#### Publicity Chair

- Amit Kumar  
BioAxis DNA Research Centre, India

#### Finance Chair

- Russell Gentle  
Australian Government, Australia

#### Website Chair

- Jeta VEDI  
Australian Government, Australia

The IEEE Region 10 Symposium (TENSYMP) is the flagship annual symposium organised by the IEEE Region 10 (Asia Pacific). The theme for 2023 is 'Technology for an Autonomous World'. An autonomous world is transforming industries ranging from automotive, aerospace, insurance to healthcare. The technological innovations in self-driving cars, environment-aware robots and intelligent buildings are becoming a reality and changing our world. Autonomous technology must operate at a high level of performance and reliability, across sensors, processing units at the edge and the cloud, data management and connectivity solutions.

TENSYMP 2023 will be held in Canberra, Australia from September 6-8, 2023. TENSYMP brings together research scientists, engineers and practitioners from across the region and the world to share their latest ideas. The symposium will showcase high quality oral and poster presentations, as well as Workshops sponsored by IEEE societies. Exceptional papers and contributors will be recognized with prestigious awards.

#### Topics of interest include

but not limited to

- Aerospace Technology
- Antenna, Microwave and RF Engineering
- Image and Video Processing
- Smart Technologies
- Blockchain/Distributed Ledger Technologies
- Artificial Intelligence
- Cloud Computing, Security and Privacy
- Humanitarian and Social Impacts of Technologies
- Low power VLSI devices, Circuits and Systems
- Telecommunications / 5G and Beyond
- Power Electronics and Systems
- Renewable Energy Technologies
- Control Systems and Engineering
- Systems, Man, and Cybernetics
- Computational Intelligence
- Geoscience and Remote Sensing
- Data Science and Engineering

#### Important Dates

Special Session / Workshop  
Proposals

27 February 2023

Paper Submissions

19 March 2023

Camera Ready Submission

30 May 2023

Registration Opens

30 May 2023

# UPCOMING IEEE R10 CONFERENCES



## IEEE R10 HTC 2023 Humanitarian Technology Conference

### IMPORTANT DATES

**Paper Submission Deadline**  
May 15, 2023  
**Paper Acceptance**  
July 15, 2023  
**Camera Ready Paper Submission**  
July 30, 2023  
**Conference**  
Oct 16-18, 2023  
**Tutorial/Workshop/Special Session**  
**Proposal**  
Oct 16-18, 2023

### ORGANISING COMMITTEE

#### ADVISORY COMMITTEE

**Deepak Mathur**, IEEE Region 10, Asia Pacific  
**Lance Fung**, IEEE Region 10, Asia Pacific  
**Akinori Nishihara**, Tokyo Institute of Technology, Tokyo, Japan  
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**Suresh Nair**, IEEE India Council  
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**Sampathkumar Veeraraghavan**, IEEE Humanitarian Activities, Boston, USA

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**Abhisek Appaji**, IEEE Bangalore Section, Bengaluru  
**Amit Ved**, Marwadi University, Rajkot

#### CONFERENCE TREASURER

**Manisha Shah**, Nirma University, Ahmedabad

#### PUBLICATION CHAIR

**Purna Gaur**, NSUT, Delhi

#### PUBLICATION CO-CHAIR

**Sumit P Makwana**, Marwadi University, Rajkot

IEEE R10 HTC is a premier annual cross disciplinary conference that will bring together technologists, engineers, scientists, investors, representatives from NGOs, governments, academia, and industry throughout the world to present latest research, findings, ideas and application in the area of humanitarian technologies. IEEE R10 HTC 2023, which is organized and hosted by IEEE Gujarat Section, will be held at Marwadi University - Rajkot, during 16th - 18th October 2023. HTC 2023 will be a three-day event with one day of Industry Conclave and two days of technical sessions.

### CONFERENCE TRACKS

We invite researchers, educators, industrialists, innovators and scholars to submit original work which may be conceptual, theoretical, or empirical under the conference theme,

- Track I - Smart Technologies & IOT for Humanity
- Track II - Smart City & Smart Village
- Track III - Power and Energy
- Track IV - Environment and Sustainability
- Track V - Earthquake Engineering & Disaster Management
- Track VI - Agriculture
- Track VII - Data Science and Engineering
- Track VIII - Applied Areas of Industry 4.0
- Track IX - 5G Technology for Humanity
- Track X - Machine Learning for Humanity
- Track XI - Technologies and Innovations in Healthcare
- Track XII - AR (Augmented Reality) & VR (Virtual Reality) for Humanity
- Track XIII - Entertainment & Computer Gaming for Humanity
- Track XIV - Education
- Track XV - Security and Surveillance for Humanity
- Track XVI - Innovation and Entrepreneurship Track
- Track XVII - Clinical Genomics
- Track XVIII - Green and Smart Materials and Composites for sustainable habitats
- Track XIX - Gut Microbiome using Bioinformatics

### PUBLICATION OF PAPERS

Presented papers will be included in Conference Proceedings pending author requirements being met.

### INDUSTRY CONCLAVE

IEEE Region 10 Special Industry Conclave is conceptualized to offer a platform of collaboration and networking for Industry Leaders, Research and Academic Professionals, Young Professionals, Practitioners and Women in Engineering. This initiative is aimed to foster skill development required for industries, sessions and internship on disruptive technologies and Industry - Academia collaborations.

### STUDENT RESEARCH FORUM

We invite advanced stage PhD work and completed thesis (not older than 6 months), M Tech / M S thesis and undergrad high-level research projects to present and get inputs from experts. This will give these aspiring students a platform to network, improve their work besides exploring post - doctoral opportunities and/or job offers.

FOR MORE INFORMATION PLEASE VISIT

WEBSITE: [www.r10htc2023.org](http://www.r10htc2023.org) | LINKEDIN: <https://www.linkedin.com/company/ieeeregion10htc>

CONTACT US AT : [info.htc2023@gmail.com](mailto:info.htc2023@gmail.com)

VENUE

MARWADI UNIVERSITY,  
RAJKOT, GUJARAT (360 003)



# UPCOMING IEEE R10 CONFERENCES



IEEE Thailand Section

IEEE Region 10



## IEEE Region 10 Technical Conference 2023

31 October to 3 November 2023, Chiang Mai, Thailand

### ORGANIZING COMMITTEE

#### ADVISORY COMMITTEE

Lance Fung (Murdoch University, Australia)  
Deepak Mathur (IEEE Region 10, India)  
Kirapat Jiemset (MEA, Thailand)  
Viboon Rerksirathai (EGAT, Thailand)  
Vidhya Rakpong (EGAT, Thailand)  
Piyapan Hannarkin (OEG Co Ltd, Thailand)

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Yoshikazu Miyanaga (Chitose Institute of  
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#### PUBLICATION CHAIR

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Datchakorn Tâncharoen (PIM, Thailand)

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Napa Rachata (University of Phayao,  
Thailand)  
Krittika Kantawong (University of Phayao,  
Thailand)

IEEE Thailand Section, an organizer of the flagship IEEE Region 10 Technical Conference (TENCON) 2023, solicits technical papers for oral and poster presentations. The conference theme is “Engineering Tomorrow: The Sustainability-driven Innovation for Post Outbreak Era,” featuring outstanding keynote speakers, high-quality peer-reviewed research papers reporting original contributions, special sessions highlighting state-of-the-art research and technologies, and pre-conference workshops.

The topics of interest for IEEE TENCON 2023 include the ten technical tracks:

1. Artificial Intelligence and Machine learning
2. Communications and Networking
3. Power, Energy, and Power Electronics
4. Biomedical Engineering and Healthcare Technologies
5. Robotics, Control, Instrumentation, and Automation
6. Multimedia Signal Processing and Analytics
7. Devices, Circuits, and Materials
8. RF Circuits, Systems, and Antennas
9. Data Science and Computing Technologies
10. Education in Engineering and Technology

### IMPORTANT DATES

Special Session Proposal Deadline: **February 28, 2023**

Special Session Announcement: **March 16, 2023**

Special Session/Regular Paper Submission Deadline: **May 31, 2023**

Notification of Paper Acceptance: **July 10, 2023**

Camera Ready and Author Registration Deadline: **July 31, 2023**

### SPECIAL SESSION PROPOSAL AND PAPER SUBMISSION

Prospective authors can submit their special session proposal and paper by following the guidelines on the conference webpage

(<http://www.tencon2023.org>).

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

For further information please visit <https://www.tencon2023.org>

Contact e-mail: [tencon2023@gmail.com](mailto:tencon2023@gmail.com)

### Organizing sponsors & patrons

TENCON23-CPF-v4-14.02.2023



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