

2021 ICNL

IEEE INDIA
COUNCIL

Volume 16 | No 4





Dr. K.R.Suresh Nair

Chair, IEEE India Council 2021

Dear Readers,

Wishing you all a very happy new year!

IEEE India Council (IC) wishes for you and your family to be safe. I am grateful to the IC Newsletter editor for bringing the fourth edition of IEEE India Council (IC) Newsletter for the year 2021. I would like to congratulate all the IC volunteers for their support and cooperation which has made IEEE India Council as one of the most vibrant councils in IEEE. This would not have been possible without the efforts of Vice-Chairs of IC and Section Chairs throughout India.

During the fourth quarter of 2021, IC was able to actively bring a plethora of events during this quarter in both online and hybrid modes for the benefit of the IEEE members. The IEEE India Council organized its flagship congress i.e. All India Students Young Professionals Women in Engineering Life members Congress (AISYWLC'21) in hybrid mode this year during December 1st, 11th (online mode) and 18th, 19th December 2021 (hybrid mode). Additionally, IC also organized the flagship conference IEEE INDICON 2021 successfully in hybrid mode.

I thank all the efforts taken by Mr. Utkarsh Singh and his ICNL Team in 2021. I would also like to thank everyone who has extended their cooperation in providing the inputs to the newsletter. I am sure that with the help of active volunteering in IEEE, we will be able to achieve new heights in 2022.

With best regards,

Suresh Nair

To New Beginning, A Chance to Reinvent

As the curtain to a tumultuous 2021 closes and the beginning of a fresh year allows us to reflect on all the moments we enjoyed, new friendships and relationships we built, skills we gained, and success we achieved. It also is a time to look back at the tasks which are half-done and still need to be finished. On behalf of the IEEE India Council Newsletter team, we would like to wish you a year filled with the spirit of happiness and success. As every new year brings a close to a few old deeds and ushers numerous new undertakings, as part of this tradition, the IEEE ICNL - 2021 team wishes to bid farewell to our readers with the Quarter-4 edition of the IC Newsletter 2021. It has been a great journey with the support and cooperation of the India Council Execom, our valuable readers, and our teammates. Through these 4 installments of 2021, we have been able to showcase innovation with the implementation of fresh ideas. You have witnessed wonderful designs, lucid content, and great experiences. As a team, we tried our best to make the newsletter more cogent and readable to audiences across various cross-sections. A few ideas remain on paper and we wish the new team would build on the work and make the newsletter even stronger. With fond memories and new hopes we present this final edition of 2021 to you, we hope you enjoyed reading from us and have learned in the way. Wishing you well, from the team All the Best!

Event and Section Reports

AISYWLC'21

The annual flagship event of IEEE India Council, the All India Students, Young Professionals, Women in Engineering & Life Members Congress, AISYWLC'21 was hosted in hybrid mode by IEEE Kerala Section at Four Points by Sheraton Kochi Infopark on the 18th and 19th of December 2021. AISYWLC'21, with its theme "Together, Stronger, Forward", brought together delegates from various domains along with exciting and intriguing happenings to engage and enlighten the audience with amazing insights. The first day of the event was a session on 'Search for Habitable Worlds' by the prominent speaker Dr. Anand Narayanan. It was followed by an interactive talk session on, "Creativity in the Modern World" handled by Mr. Varun Duggirala. The session was sponsored by Edurupt.

The much-awaited session on "Advanced materials and products for a clean world" sponsored by IEEE Young Professionals was presented by Padma Shri Dr. Thalapil Pradeep. Further into Day 2, there was a panel discussion under the Student Activities Professional Awareness Track sponsored by IEEE Students. The exemplary panel included Prof. V K Damodaran, President of VMFT and Life Senior Member at IEEE, Dr. Sameer S M, Professor at NIT Calicut and IEEE Region 10 Secretary, Ms. Sapna Giddegowda, Software Professional at VMWare and Mr. Advait Thakur, Chief Executive Officer of Apex Infosys India. Later on an awe-inspiring session for the literature lovers, "My Literary Journey" with Mrs. Khyrunnisa A concluded day 2. Khyrunnisa ma'am is the creator of the very famous, loved, and widely celebrated character Butterfingers from Tinkle.

The second and final day of AISYWLC'21 had a kick start with Mr. Mohammed Ikan, Director, Society for Training and Development in Lakshadweep, adroitly



Event and Section Reports

handling the session “Altitude Rediscovering Leadership”. IEEE YP sponsored session, “Journey as a wildlife photographer” featuring Ms. Nisha Purushothaman was a treat for the avid travelers and photographers among the audience.

With all the festivities, interactions, and memories AISYWLC’21 provided around 140 delegates with the means to connect with industry professionals, entrepreneurs, and professionals working on the latest technologies.

The title sponsor being UST Global, Associate Sponsor Edurupt, along with the co-host, IEEE SB MACE joined hands in making the congress an unforgettable spectacular experience. Society sponsors – IEEE Signal Processing Society, IEEE Nuclear & Plasma Science Society, IEEE Electronics Packaging Society. The dedicated track sponsors– IEEE YPs, IEEE Students. Section sponsors, IEEE Hyderabad section, Bombay section, IEEE madras section, and IEEE Pune section. SB sponsors were IEEE SB AJCE, IEEE SB GECK.

IEEE Bombay Section Activities

Conference Report

IEEE Bombay Section Signature Conference (IBSSC-2021)

The 3rd IEEE Bombay Section Signature Conference (IBSSC-2021), was organized by IEEE Bombay Section and ABV-IIITM Gwalior, India during 18th to 20th November 2021. Themed, “Frontiers of Technologies: Fuelling Prosperity of the Planet and People”, this flagship conference of the IEEE Bombay Section featured a comprehensive high-quality technical program including technical paper presentations, poster sessions, expert talks, and tutorials by

Event and Section Reports

This conference was conducted in the hybrid mode (both physical and online). A total of 90 participants participated in the physical mode at ABV-IIITM Gwalior and 200 participants participated in online mode. Dr. B. Satyanarayana, and Dr. Somesh Kumar provided constant support through their presence throughout the event. The Keynote speakers for the event were Prof. Arumugam Manthiram, Prof. D. P. Agrawal, Mr. Asim Bhalerao, Prof. Anurag Mairal, and Prof. Juzer Vasi.



Conference Report

Second IEEE International Conference STPEC 2021 organized by IEEE Bombay Section Joint Chapter of PELS-IES and Chouksey Engineering College

Second IEEE International Conference on Smart Technologies for Power, Energy and Control was hosted by the Department of Electrical & Electronics Engineering, Chouksey Engineering College, Bilaspur, India during 19th-22nd December 2021. The conference was Financially Co-sponsored by IEEE Industry Applications Society (IAS) and IEEE Power Electronics Society (PELS) & Technically Co-sponsored by IEEE Industrial Electronics Society (IES) and IEEE

Event and Section Reports

Bombay Section. It will be jointly organized by IEEE Bombay Section Joint Chapter of PELS/IES and Chouksey Engineering College, Bilaspur, C.G. India.

Four Keynote Talks were delivered by Prof. Biplab Sikdar, Prof. Vinod Khadkiar, Prof. Anurag Srivastava and Dr. Dinesh Kumar along with two tutorials by Prof. H M Suryavanshi and Prof. Pramod Agrawal. Prof. Georges Zissis. General Chair of the conference was Prof. Akshay Rathore, General Co-Chair was Dr. Pradyumn Chaturvedi and Organizing Secretaries were Dr. Ankita Dwivedi and Dr. Siba Kumar Patro. The publication chair of STPEC 2021 was Dr. K Ramsha.



Lecture Series By Industry Relation Committee IEEE Bombay Section

The Standing Committee on Industry Relations (IRC) of IEEE Bombay Section plan and conduct activities to encourage and strengthen the professional relationship among various industries, research organizations and academic institutes within the geographical domain of IEEE Bombay Section. The most recent lecture in this series was delivered by Dr. Ajay Kumar, Defence Secretary, Government of India on “Make in India Initiative - Challenges, Opportunities and Road Ahead” on 6th November 2021 which was followed by

Event and Section Reports

a lecture on “Energy security for India's development in a carbon constrained world” by Dr. Anil Kakodkar, Chancellor, Homi Bhabha National Institute, AICTE distinguished Chair Professor and Chairman, Rajiv Gandhi Science & Technology Commission, Former Chairman, Atomic Energy Commission and Former Secretary, Department of Atomic Energy, Government of India on 27th November 2021 as mentioned in Fig.1. More than 150 people from India and abroad attended these events.



IEEE India Council, Educational Activities

Workshop on “Deep Learning Networks for Image Processing”

IEEE INDIA COUNCIL conducted the online workshop on “Deep learning networks on image processing” during December 22nd – 23rd, 2021 through online. In the two days event, 285 students from various institutions participated. Dr. Suresh Nair, and Dr. Prerna Gaur felicitated the function. The programme started with a welcome address by Dr.D.Devaraj, Vice Chair, Educational Activities, IEEE India council.

The technical session started with Dr. D. Jude Hemanth handling the session on “Introduction to Artificial Neural Networks”. The technical session 2 was conducted on the topic of “Artificial neural network implementation using MATLAB” by Dr.D.Devaraj.

Event and Section Reports

The day 2 programme started with a presentation on “CNN for Image Processing” by Dr. J Sheeba Rani. The technical session 4 was handled by Dr. Josephine Selle J, on the topic “Image Processing using Matlab”. The last session was handled by Mr. Moinak Bhattacharya, on the topic of “Advanced Deep learning Networks”.



IEEE Hyderabad Section Activities (October-December)

IEEE GRSS Summer School 2021 - Hyderabad Chapter

The IEEE Geoscience and Remote Sensing Society Hyderabad Chapter in collaboration with Muffakham Jah College of Engineering & Technology and Geethanjali College of Engineering and Technology, Hyderabad has organized 3-day GRSS Summer School on “Artificial Intelligence in Remote Sensing Applications”, 21-23 October 2021. The inauguration was held in hybrid mode and Mr. Deepak Mathur, was invited to be the Chief Guest of the function. The entire event was conducted through online mode and more than 1200 participants across the globe registered for the same.

Event and Section Reports



Section Student Congress (SSC-2021)- SAC

IEEE Hyderabad Section

Student Section Congress 2021, an Annual flagship congress of IEEE Hyderabad Section under the theme of Unite & Celebrate held on 4th December 2021 at The Plaza hotel, Begumpet, Hyderabad was conducted with 100 Participants (physically present), 1000+ (virtually).

Dr Y Vijayalata, Mr. Sreenivas Jasti, Dr Arif Soheli, Mr. Vidyasagar T, Dr. Satish were the dignitaries present in the event.



Event and Section Reports

Sensor Council Workshop:

The Role of Sensors in Industrial Automation:

Two day “Sensors Council Workshop” under the theme “ The Role of Sensors in Industrial Automation” organized by IEEE Sensors Council Hyderabad Chapter on 20th and 21st Oct 2021 was completed successfully at Vardhaman College of Engineering, Hyderabad. The chief guest for the event Mr. Deepak Mathur, Director, IEEE Region 10 provided insights on various committees in Region10. The speakers for the event were Dr. P A Manoharan, Mr. Kishore Chandra Das, Mr. N. Venkatesh, and Dr. J. Chattopadhyay.



IEEE MADRAS SECTION

IEEE MADRAS SECTION OFFICE BEARERS MEET

The IEEE Madras Section Office Bearers Meet took place at Hotel Le Royal Meridien on 12th Dec 2021. The Meet Commenced at 10 AM with the Inaugural ceremony. Dr. N. Kumarappan welcomed the gathering with his kind and motivating words. Following his welcome note, Mr. Ashvanth welcomed the Chief guest, Mr. Sarath Chandar, General Manager of Vaken Technologies to present a few words. After his keynote, Dr. N. Kumarappan Felicitated the chief

Event and Section Reports

guest and the meet continued following a Tea break.

After the break, the participants' self-introduction took place. Following that Dr. N. Kumarappan, Dr. S. Joseph Gladwin, Mr. Arun, Mr. Aravindhan Anbazhagan, Mr. Ashvanth handled sessions on Awards & Opportunities available in IEEE for the Student Branches, SB Funding Opportunities from IEEE MAS and other IEEE Sources, Newsletter Reporting & Guidelines ,Creating an Action Plan for Student Branches, and Effective tools for Student Branch Volunteers respectively.

The meet concluded with a Networking session in which office bearers competed in an IEEE Themed Connection Quiz Event.



IEEE Madras Section Annual General Meet

IEEE Madras Section 2020 had its Annual General Meeting on December 12, 2021, from 12.30 to 5.00 PM. IEEE Madras Section Chair – Dr. N. Kumarappan, IEEE Madras Section Vice-chairman Dr. R. Hariprakash, IEEE Madras Section Secretary – Dr. D Devaraj, IEEE Madras Section Chair Treasurer – Dr. S Joseph Gladwin, and Mr. Rangarajan TS were presented on the podium.

Dr. N. Kumarappan presented these awards under various categories like BEST STUDENT VOLUNTEER, BEST STUDENT BRANCH, BEST WIE VOLUNTEER, BEST YOUNG PROFESSIONAL VOLUNTEER, LIFE TIME ACHIEVEMENT AWARD. BEST

Event and Section Reports

RESEARCH PAPER AWARD was awarded under three different age categories Under 40, between 40 to 50 and Above 50. After the award session, the gathering came to a close with networking tea and a photo session, followed by the National Anthem.



IEEE Computational Intelligence Society

Student Training Program on Computational Intelligence in Engineering

IEEE Computational Intelligence Society Madras section organized Student Training Program on Computational Intelligence in Engineering 28-10-2021 & 29.10.2021 in presence of Dr. K. Porkumaran, Dr. K Palani Kumar, Shri. Sai Prakash Leo Muthu, Shri. K Naresh Raj, Dr. N Kumarappan, and Dr. A Rajendra Prasad.

Dr. N Kumarappan delivered a speech to our participants on the topic of Artificial Neural Network. Afternoon Session on 28.10.2021 was handled by Dr. Swagata Sarkar with hands-on training on Artificial Neural Network using MATLAB. Forenoon sessions on 29.10.2021 were handled by Dr. C Komathi & Dr. Swagata Sarkar on Fuzzy Logic Systems presentation with Hands on and

Event and Section Reports

Optimization Techniques presentation respectively.

Afternoon Session on 29.10.2021 were Dr. C Komathi & Dr. Swagata Sarkar on Particle Swarm Optimization and Ant Colony Optimization presentation and hands on training respectively. A small online quiz was conducted after the training session. Top three performers are awarded with cash prizes.



IEEE UPSKILL MADRAS 2021 - STACK YOUR WORK

IEEE Madras Young Professional organized R10 Sponsored Upskill Madras 2021 – Stack Your Work on 10 Oct 21 at St. Joseph's College of Engineering, Chennai from 9.30 AM – 5.30 PM.

Mr Ashvanth B, Mr Arun M, Dr N Kumarappan, Mr Abdul Halik M L, and Ms Pooja Sharma K, were the dignitaries present in the event.

The keynote sessions on Digital Portfolio, How to Enhance Personal Branding in our Workplace, Personal Branding Using Facebook & Instagram, How to use LinkedIn Effectively for Personal Branding, Hands-On Demonstration: Create Personal Portfolio Using Canva were handled by Mr TM Princely Samuel, Mr TM Suhadip Banik, Mr Elanchezian Ragavan, Mr TM Arun Kumar Rajaram, and

Event and Section Reports

Mr Praveen Raj, respectively.

The sessions were followed by a Panel Discussion where everyone interacted with the Young Professionals of the Madras Section. This session was moderated by Ms Bharathi Ramesh with Mr Arun, Ms Pooja Sharma, Mr Ashvanth and Mr Vinoth in the panel.

This event was funded and supported by IEEE Region 10, IEEE Madras Section, IEEE Madras Women In Engineering Affinity Group, IEEE Madras TEMS Chapter, IEEE Madras CIS Chapter, IEEE Madras Education Society Chapter, IEEE Madras Photonic Society Chapter, IEEE Madras Communication Society Chapter.



Call for Papers

IEEE Region 10 Symposium (TENSYP 2022)

"Flagship Conference of IEEE Region-10"

1st - 3rd July, 2022

Venue: VMCC, IIT Bombay, Mumbai, INDIA

The tenth edition of IEEE Region 10 Symposium 2022 (TENSYP 2022) is being held in Mumbai, India during 1st – 3rd July 2021 in Physical/Offline Mode. While the theme of this conference is "Technologies on the horizon for the benefit of humanity", the scope of this conference has been kept reasonably wide with the following major topics (But not limited to):

- AI and Blockchain Paradigms for the changing world
- Antenna, Microwave and RF Engineering
- Humanitarian and Social impacts of Technologies
- Low power VLSI devices, Circuits and Systems
- Novel Education Technologies in the new normal
- Photonics Technologies
- Power Electronics and Systems
- Renewable Energy Technologies
- Sensors and IoT applications in Health and Agriculture
- Signal, Image and Video processing

The fee structure and other details can be found in the attached Conference Brochure.

Please visit the conference website for more details: <http://tensymp2022.ieeebombay.org/>

The Conference will include talks from eminent Keynote Speakers and Tutorials/Workshops/Special Sessions.

Authors are invited to submit the full paper (Maximum 6 pages, double-column A4) as PDF using the [IEEE template](#).



Call for Papers

The conference will follow the Double-Blind Review Process, and hence Author names should be hidden while submitting the papers. Authors are invited to submit their papers in electronic format through [EDAS](#).

Click here to submit papers: <https://edas.info/N28913>

All Accepted and Presented papers will be submitted for publication to IEEE Xplore, which is indexed with world's leading Abstracting & Indexing (A&I) databases

IEEE Bombay Section welcomes you to the 'magical city' of Mumbai for the 10th edition of TENSYPMP. ***It is back to the in-person Symposium after a couple of years, enabling better networking and fruitful interactions – both during and outside the Symposium sessions.*** "Aamchi Mumbai" (Our Mumbai) and the Incredible India are exciting tourist destinations during any season of the year.

We request you to give wide publicity for the conference among your faculty colleagues, students, researchers, and industry.

Please contact us through email: tensymp2022@ieeebombay.org if you have any queries.

With Best Regards,
(General Chair, TENSYPMP 2022)

New Positions

Hearty Congratulations For New Positions



Ravikiran Annaswamy

has been elected as the President for IEEE TEMS in the IEEE TEMS Elections for 2022–23

Sudeendra Koushik

has been elected as the Vice President for Conferences in the IEEE TEMS Elections for 2022–23.



Nomination forms open for

Three MGA Outstanding Section Awards will be presented annually:

- One large Section
- One medium Section - new in 2014
- One small Section

Link: <https://mga.ieee.org/awards/nomination-process>

- [IEEE Medal of Honor](#)
- [IEEE Frances E. Allen Medal](#)
- [IEEE Alexander Graham Bell Medal](#)
- [IEEE Edison Medal](#)
- [IEEE Medal for Environmental and Safety Technologies](#)
- [IEEE Founders Medal](#)
- [IEEE Richard W. Hamming Medal](#)
- [IEEE Medal for Innovations in Healthcare Technology](#)
- [IEEE Jack S. Kilby Signal Processing Medal](#)
- [IEEE Mildred Dresselhaus Medal](#)
- [IEEE James H. Mulligan, Jr. Education Medal](#)
- [IEEE/RSE James Clerk Maxwell Medal](#)
- [IEEE Jun-ichi Nishizawa Medal](#)
- [IEEE Robert N. Noyce Medal](#)
- [IEEE Dennis J. Picard Medal for Radar Technologies and Applications](#)
- [IEEE Medal in Power Engineering](#)
- [IEEE Simon Ramo Medal](#)
- [IEEE John von Neumann Medal](#)

Last date would be
15 June for the
IEEE medals

Call for applications

Shri Pralhad P Chhabria Awards 2022

Presented by Hope Foundation and Research Centre (Hope Foundation), In Association With IEEE India Concil, WiE Affinity Group, IEEE Pune Section

The FOUR awards are

1. Best Outgoing Female Student – Winner
2. Best Outgoing Female Student – Runner Up
3. Best Woman Professional (Early Career) – Winner
4. Best Woman Professional (Early Career) – Runner Up

Application Closes – 23 February 2022 (Wednesday)

To apply and know more about the awards, please visit hfrc-ieeeawards.org

Signing off

It's time to welcome the new dawn and bid adios to the culminating dusk as the IEEE ICNL Team of 2021 bids farewell. We thank you for all the support and co-operation.

IEEE INDIA
COUNCIL

ICNL Team 2021



**Utkarsh
Singh**
Editor



**Prashasti
Shreshtha**
Associate Editor



**Aakash
Reddy Pocha**
Design Lead



**Akash
Kotak**
Editorial Coordinator



**Suyog
Borker**
Editorial Coordinator



**Varun
Posimsetty**
Editorial Coordinator



**Viswesh
Parameswaran**
Editorial Coordinator



**Aswin
Madathil**
Design Coordinator



**Deepak
Doopati**
Design Coordinator



**Jachin
Bency Thomas**
VFX Coordinator



**Khush
K Patel**
VFX Coordinator

Contact

For section related queries:

SECTION	WEBSITE	SECTION CHAIR	E-MAIL ID
Bangalore	http://ieeebangalore.org/	Dr. Bindumadhava	bindhu@cdac.in
Bombay	http://ieeebombay.org	Dr. Satyanarayana Bheesette	Dr.Satyanarayana.Bheesette@ieee.org
Delhi	http://ewh.ieee.org/r10/delhi	Dr. Rachna Garg	rachnagarg@dce.ac.in
Gujarat	http://ieeegujaratsection.org	Prof. Manik Lal Das	maniklal@gmail.com
Hyderabad	http://www.ieeehyd.org/	Mr. Sreenivas Jasti	sreenivas.jasti@ieee.org
Kerala	http://www.ieeekerala.org/	Ms. Sarada Jayakrishnan	sarada.jk@ieee.org
Kharagpur	https://site.ieee.org/kharagpur/	Prof. Sudip Misra	sudipm@iitkgp.ac.in
Kolkatta	http://ewh.ieee.org/r10/calcutta/	Prof. Sushmita Mitra	sushmita@isical.ac.in
Madras	http://site.ieee.org/madras/	Dr. N. Kumarappan	kumarappan.ieee@gmail.com
Pune	https://ieeepunesection.org/	Mr. Girish Khilari	gkhilari@hotmail.com
Uttar Pradesh	http://www.ieeeup.org/	Dr. Satish Singh	sk.singh@iiita.ac.in
Vizag	https://r10.ieee.org/vizagbay/	Mr. S. Lakshmi Narayana	sln@ieee.org

To reach out, contact us at:



<https://site.ieee.org/indiacouncil>



IEEE India Council



ic-ecim@ieee.org