



## Message from Editor

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Dear readers,

We are presenting the third quarter issue of India Council Newsletter (ICNL) for the year 2019. This current issue of ICNL is again a mega issue of 202 pages and features 26 articles. To facilitate easy downloading, the issue is presented in two parts – Part 1, having regular items such as messages, activity reports, usual columns such as IT Happenings, Information Resources, Books, Book Excerpts and Announcement and Part 2 featuring contributed articles by professionals and academic community.

ICNL extends hearty congratulations to India Council OUs, individuals and SBs for receiving the various 2019 R10 awards (the entire list is published elsewhere in this issue) . This is the first time that the outstanding chapter awards in all three categories – Large, Medium and Small have been won by IC Sections. We are really proud of our winners.

ICNL thanks the organisers/ & chairs of the Bangalore, Bombay, Delhi, Hyderabad, Kolkata, Madras, Nagpur Sections for sending their section related activity reports as per guidelines. We also thank Vice Chair, IC SAC for the reports on the Industry Visit & Webinars. Our thanks to Mr Puneet Mishra, IC Secretary and Dr. S.N. Singh, IC Chairman for their support in facilitating the reports. We note that not all activities are reported and only a sub set of numerous activities that are conducted across the Sections. We will be happy to publish the reports of all activities if received from the organizers / sections directly at the newsletter email id [ieee.icnl@gmail.com](mailto:ieee.icnl@gmail.com) as per the guidelines published in the newsletter elsewhere and also available at <https://goo.gl/DcVPmx>

ICNL thanks the authors who have enthusiastically responded to our request and contributed the following informative and interesting articles included in this issue in Part 2.

1. Future Energy Systems by Mr. Abhilash Gopalakrishnan
2. Future Automotive E/E Architecture by Mr. Arun Shankar
3. Innovation and IBM by Dr. Seshadri Subbanna and Dr. Sanjay K Prasad
4. Industry 4.0 wave - Relevance of SCADA in an IOT world and journey towards a true digital enterprise by Mr. K. Rajeswar
5. The world of NDT transitioning from Analog to Digital by Mr. C.P. Madhusudan
6. A Review for Assessment on Solar Panel Degradation by S. Prabhakar Karthikeyan et al
7. Solar Photo-Voltaic Modelling using Intelligent Algorithms by K. Mohana sundaram et al
8. Development of a Fog Computing Based Data Analysis Platform for Real-Time Monitoring of Water Quality by Piyali Ganguly et al
9. Blue Economy - Opportunities for India by M. A. Atmanand et al
10. Technology Innovation Center by Mr. Madhukar Srivastava
11. An Overview of Deep Learning in Smart Grids by Dr. Rudra Kalyan Nayak et al
12. Let's Play To Learn by Mr. Kartic Vaidyanathan
13. ML Model Management using Python Django Web Framework by Mr. P.R. Ranjith
14. Data Ethics: The Moral behind Data by Dr. Samiksha Shukla & Mr. Kapil Tiwari
15. Using AI to Prevent Vision Loss for Millions Globally by Mr. Arun Shroff
16. Big Data In The Bigger World Of Agriculture Today by Mr. Kunal Prasad
17. Speech Analytics – Use cases in Service Centers by Mr. Surya Putchala & Ms. Sreshta Putchala
18. Potential of Integrated Data Geography as a new Systems Engineering Approach by Dr. Tapobrata Lahiri et al
19. How to win Core Projects for the Offshore Center from the Head Office by Dr. Vimal Kumar Khanna
20. Is India Future Ready? By Ms. Rajashree Rao
21. Employee or Entrepreneur by Mr. Sudeendra Koushik
22. How to bridge the gap between Employability & Employment - A thought by Dr. S. Sridhar
23. Build a Micro Product - Expand Your Software Skills by Mr. Dorai Thodla
24. Engineering success with English by Mr. T K Arunachalam
25. My Reflections on being a Software Engineer by Ms. Wafa Waheeda Syed
26. Indian Women in Engineering - Past, Present, and Future by Dr. Shantha Mohan

ICNL wishes to reiterate that these articles published in this issue are not peer reviewed and are also not checked for plagiarism for which the authors are responsible. Further, the views expressed in these articles are that of the authors and ICNL is not responsible for any consequences of using the information provided in them.

We are happy to have published briefs on the following books and thank the publishers for providing copies of the books.

- Icons of Indian IT
- The Tata Group: From Torchbearers to Trailblazers

- Making Innovations Happen: How You Can Develop a Culture of Innovation in Your Organization
- The Brand Custodian: My Years with the Tatas
- Win-Win Corporations: The Indian Way of Shaping Successful Strategies
- Igniting Innovation: The Tata Way
- Artificial Intelligence: Making a System Intelligent
- Power Plant Engineering: Theory and Practice
- DevOps Tools from Practitioner's Viewpoint
- Clearing The Digital Blur
- Soft Skills: An Integrated Approach to Maximise Personality
- Business Skills All-in-One For Dummies
- Technology Laws Decoded
- Roots and Wings: Inspiring Stories of Indian Women in Engineering

We are also happy to have included excerpts from the books “Icons of Indian IT” and “Making Innovations Happen” with the permission of the author..

Chairman Dr. S.N. Singh has provided a comprehensive message highlighting major decisions taken by the India Council and the forthcoming major events being organised by India Council. The” What’s hot in IT - An Indian Perspective” a regular column by Prof. S. Sadagopan, Director, IIIT Bangalore provides a broad overview on various important happenings in the IT and Telecom sectors in India during Jun-Aug 2019. We are sure that readers will find the information and the related links provided in the column “Information Resources” compiled by the editor Mr. H.R. Mohan will be of interest to ICNL readers. We wish to add that “Interesting Reads”, a regular blog post published once a week by him (the source from which the matter for the Information Resources is compiled) may also be of interest to our readers The archives of these blog posts can be accessed at <https://goo.gl/VGXizd> We have added references under “Related Readings” at the end of the articles and effectively utilised the white space. To provide relief from the serious matter, few cartoons, titbits, quotations, newsbits are also included which we are sure will interest the readers. A no. of important announcements including events such as TENCON-2019 and INDICON-2019, 21CW2020 (IEEE SSIT 3rd Conference on Norbert Wiener in the 21st Century), India Science Fest, R10 Awards to IC OUs, Nominations for IC Awards & IEI-IEEE Joint Award, Guidelines and useful IC website links also appear in Part 1 of the issue which will interest our readers.

We wish to remind our readers to encourage new members to join IEEE at 50% of the annual subscription and enjoy the membership benefits till Dec 2019.

ICNL wishes to acknowledge various internet sources for the information presented in this issue of the newsletter. Our exclusive thanks to inshorts (<https://www.inshorts.com>) and Mr. Sunil Agarwal & Mr Ajit Ninan for the permission to use their thought provoking cartoons appeared in Times of India.

### Update on TENCON-2019

Kerala Section, the outstanding large Section of R10 in 2019 is hosting TENCON-2019, the flagship event of IEEE R10 during 17-20, Oct 2019 Grand Hyatt Kochi Bolgatti, Kochii, Kerala. We are pleased to provide an update on this event as communicated by Dr. Suresh Nair, General Chair, TENCON-2019.

Statistics on the Papers: Total number of paper submissions – 1410; Total number of submissions (excluding TENGARSS) – 1290; Total number of Accepted papers (excluding TENGARSS) – 687; Total number of papers registered (excluding TENGARSS) – 485; Percentage of accepted papers - 53%; Percentage of registered papers - 38%. (TENGARSS is now a co-located event at TENCON-2019).

The registrations have come from 19 countries including: Afghanistan, Australia, Bangladesh, China, Denmark, Great Britain, India, Indonesia, Japan, South Korea, Malaysia, Netherlands, Pakistan, Philippines, Singapore, Spain, Srilanka, Thailand, and USA.

The program schedule is already done and is available at TENCON2019 web site. (<http://www.tencon2019.org/>). The program includes: Keynote addresses, workshops, tutorials, special sessions, paper presentations, social program/tour. There will be Special Industry Track as well as Humanitarian tracks.

The Chief Guest will be Hon. Governor of Kerala. He has informally consented inaugurate the event. Mr. Steve Welby, IEEE ED and COO will be a distinguished guest at TENCON-2019.

Registration is open. Contacts: General Enquiries : [chair@tencon2019.org](mailto:chair@tencon2019.org); Secretariat: [secretariat@tencon2019.org](mailto:secretariat@tencon2019.org); Website: <http://www.tencon2019.org/>