



## Message from Editor

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Dear readers,

We are happy to present the second quarter issue of India Council Newsletter (ICNL) for the year 2018. This current issue of ICNL in 72 pages has 13 articles (exceeding the last issue record of ten), along with few events reported by some sections and society chapters. We thank the chairs of the sections and the conveners of the events for sending the reports as per guidelines and IC Chair Dr. Sivaji and IC Secretary Dr Preeti for their coordination. However, it is noted that not all major and special events are reported for inclusion in the newsletter. It will be great if our request for activity reports are gets a better response. For the forthcoming issue, we hope the major activity reports from all the sections will be sent directly to the newsletter email id at [ieee.icnl@gmail.com](mailto:ieee.icnl@gmail.com) as per the guidelines published in the newsletter and also available at <https://goo.gl/DcVPmx>

Dr. Sivaji Chakravorti, Chair, IC in his message has given the highlights of the face-to-face IC execom meetings held at Pune, miniPOCO 2018 held at Visakhapatnam, WIE Symposium and the presentation of the "Late Shri Pralhad P Chhabria Awards" at Pune, "IEEE 5G Technology workshop" organized at Bangalore, International Conference on Smart Electric Drives and Power System held at Nagpur. While requesting for wider participation in the IC events -- "IEEE Workshop on Intrapreneurship" being held at Bangalore, All India Students-Young Professionals-Women in Engineering (AISYWC) 2108 planned at Mysore, he has thanked the volunteers for making India Council a vibrant OU of IEEE.

ICNL thanks the authors who have been very response for our request and contributed the following informative and interesting articles included in this issue. These articles relate to both technical and management aspects of interest to our members and readers. We look forward to similar contributions of articles from our members and readers in the forthcoming issues.

- Improving Computer Programming Competence: The Parikshak Approach by Dr. M. Sasikumar
- Managing Distress due to Dispersion and Diversity in Organizations by Dr. Sandhya Shekhar
- Energy Management Using Blockchain Technology by Mr. Venkat Kumar Tangirala
- Rainwater Harvesting – The Success Story of Chennai by Dr. Sekhar Raghavan
- The Art of Data Science by Mr. Krishna Balasubramanian
- Unmanned Aerial Vehicle - A Sky Boon by Dr. Ganesh Subramanian
- Deep Learning in Artificial Intelligence by S. Manikandan and Dr. M. Chinnadurai
- Agile, Cloud, Mobility, DevOps in Software Testing Career by Mr. Srinivasan Desikan
- Change Management: Two Questions to Ask When Responding to Change by Mr. G. Sankaranarayanan
- Emerging Education Patterns by Dr. C. Chellappan
- Next Generation DNA Led Analysis - Challenges and Threats by Dr. Amit Kumar
- Cognitive IoT Systems – the Future of IoT by Dr. Balamuralidhar P and Dr. Arpan Pal
- Atal Innovation Mission by Mr. R. Ramanan

We are happy to have published the following excerpts from books with the permission of the authors & publishers.

- Leading Science and Technology: Vision for the Future from the book Leading Science and Technology: India Next?
- Chapter Takeaways at a Glance from the book Industry X.0: Realizing Digital Value in Industrial Sectors

IT in Apr-Jun 2018 by Prof. S. Sadagopan, Director, IIIT Bangalore is a part of our regular column in ICNL and provides a broad overview on various important happenings in the IT and Telecom sectors in India. 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 have also included brief reviews of three books -- Leading Science and Technology: India Next?, Industry X.0: Realizing Digital Value in Industrial Sectors and Human + Machine: Reimagining Work in the Age of AI. We request the readers to make note of the call for participation announcements of events including the INDICON 2018 (at Coimbatore), WIE ILS 2018 (at Kochi) and get benefited.

ICNL thanks the various Internet sources, inshorts (<https://www.inshorts.com>) for the information nuggets and Mr. Sunil Agarwal and Mr Ajit Ninan for their thought provoking cartons.