



Message from Editor

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Dear readers,

We are happy to present the fourth quarterly issue of India Council Newsletter (ICNL) for the year 2018. This current issue of ICNL in 108 pages (largest so far) has 15 articles (two more than last issue), along with reports of few Section events, India Council activities. The Secretary's Report of IEEE IC for the year 2018 and the report of the flagship event INDICON-2018 are also published. We thank the chairs of the sections and the conveners of the events for sending the reports as per guidelines and IC Chair and Secretary for their coordination. We look forward to receiving matter from all the organizers of events directly at the newsletter email id ieee.icnl@gmail.com as per the guidelines published in the newsletter and also available at <https://goo.gl/DcVPmx>

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

- Cyber Physical Systems – Overview and Evolution -- A tool for continuous evolution of systems by Mr. Abhilash Gopalakrishnan
- Hardware Trojan Horses: The New Face of Cyber Terrorism by Krishnendu Guha, Debasri Saha, and Amlan Chakrabarti
- Artificial Intelligence: Impact on Labour and Employment by Dr. Parasuram Balasubramanian
- Incubation Centres – A Need for Successful Innovations via. Entrepreneurs! By Dr. Shajulin Benedict
- Contextual Knowledge Digitisation and its Application in Software Development by Mr. Manoj Kumar Lal
- System on chip methods for Autonomous Cars by Mr. V. P. Sampath
- Teaching Learning Centre for Design and Manufacturing Education at IIITDM Kancheepuram-Toward Extremely Affordable DIY Laboratory Education by Dr. S. R. Pandian
- Active Learning in Computer Science @ UT Dallas by Dr. Jey Veerasamy, Mr. John Cole & Dr. Miguel Razo
- Research Trends and Opportunities in Machine Learning in Biotech & Health Sciences by Dr. Kolla Bhanu Prakash & Dr. B. Mahendran
- Setting up Super Silicon Valley Smart City in India – A High-tech Innovation through Secured Governance by Dr. P. Sekhar & Dr. Venkata Rayapati
- Digital Forensics – As we know it today... by Dr K Rama Subramaniam
- Shaping India's Future in Enterprise AV-IT Convergence by Mr. Gaurab Majumdar
- The importance of HiST(ory) for S&T by Dr. John Bosco Lourdusamy
- Next What? -- PPR (Possibility, Potential and Reality) Quotient by Mr. M. K. Anand
- Atal New India Challenges – A first step towards becoming an Innovation Nation by Mr. R. Ramanan

We are happy to have published the following excerpts with the permission of the author & publisher.

- The Chapter-end Takeaways from the book Neoskilling for Digital Transformation and the Artificial Intelligence Revolution

As usual, the Chairman message (last one) by Dr . Sivaji Chakravorti is comprehensive. The IT in Oct-Dec 2018 by Prof. S. Sadagopan, Director, IIT Bangalore, the regular column in ICNL provides a broad overview on various important happenings in the IT and Telecom sectors. We are sure that readers will find the information 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 briefs on nine books -- From Internet of Things to Smart Cities: Enabling Technologies; Neoskilling for Digital Transformation and the Artificial Intelligence Revolution; Gene Machine: The Race to Decipher the Secrets of the Ribosome; Films from the Future: The Technology and Morality of Sci-Fi Movies; Lean Impact: How to Innovate for Radically Greater Social Good; SHAPE IT: A Perfect Gift for Budding Engineers to Become Industry Ready; 36 Golden Rules - Build Your Business for Generations...; The 99 Day Diversity Challenge: Creating an Inclusive Workplace; and Life Skills 101 - The Science of Personal Mastery.

We request the readers to make note of the announcements on Late Shri Pralhad P Chhabria Award 2019 and send their nominations. The membership renewal for 2019 is due and we request the members to renew in time for continued benefits from IEEE and its societies.

ICNL thanks the various internet sources, inshorts (<https://www.inshorts.com>) for the information nuggets and Mr. Sunil Agarwal and Mr Ajit Ninan for granting permission to use their cartoons in this issue. ICNL wishes to add that the 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 these articles.