



Message from Editor

H.R. Mohan, hrmohan.ieee@gmail.com

Dear readers,

We are presenting the second quarter issue of India Council Newsletter (ICNL) for the year 2019. This current issue of ICNL is a bumper issue in 207 pages and features a record number of 38 articles as against 25 in the last one. As the page level has gone up significantly, the issue is presented in three parts – Part 1, having regular items such as messages, reports on activities, usual columns such as IT Happenings, Information Resources, Books, Book Excerpts and Announcement; Part 2, a special section featuring the presentations made during the 160th celebration of Sir JC Bose as articles guest edited by Dr B. Sathyanarayana and Part 3 featuring contributed articles by professionals and academic community including one 2nd year student.

ICNL thanks the organisers/chairs of the Bangalore, Kerala, Kharagpur, Madras, Nagpur Sections for sending the reports of their activities as per guidelines, and Vice Chair, IC SAC for the report on the Industry Visit focusing on Nokia University Collaboration Experiential Learning. We are aware of the fact that not all the activities are reported and only a very insignificant proportion of numerous activities that are conducted across the Sections. 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 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 3.

1. India's Trillion Dollar Opportunity in SaaS by Mr. Suresh Sambandam
2. Digital Plantation story of RGE by Mr. Abhishek Singh & Mr. Leong Hoe Wah
3. Move over, Pessimists - Emerging Top 50 Technologies Offer a Gold Mine of Opportunities by Mr. S. Anand
4. Supply Chain Management Practice in India by Mr. V. Ramachandran & Mr. M. Sundaram
5. An Overview of ICT Tools for Supply Chain Management by Prof. Prashant R. Nair
6. AI for All by Mr. S. Arjun
7. Machine Learning via Genetic Algorithm Demystified for Today's Era by Dr Vivek Venkobarao
8. Journey from Monolith Application to Microservices by Ms. Nithya Rajagopalan & Mr. Kumaraswamy Gowda
9. Establishing Community Radio Station in India by Mr. G. K. Jakir Hussain
10. Glassless 3D Technology -- A 3D Solution without glasses - the future of 3D Technology by Mr. M. Venkatesan
11. Space FPGA Mitigation Effects, Challenges and Trends by Mr. V. P. Sampath
12. Electric Vehicles for India: Overview and Challenges by Mr. A. Rakesh Kumar & Dr. Sanjeevikumar Padmanaban
13. Internet of Things (IoT) and E-Healthcare System – A Short Review on Challenges by Dr. T.Poongodi, Dr. Balamurugan Balusamy, Dr. P. Sanjeevikumar, Dr. Jens Bo Holm-Nielsen
14. Marine Autonomous Systems – Technology, Opportunities and Use Cases by Mr. Madhan Dhanushkodi & Mr. Darshan Rajagopal
15. Architecting for Strategic Outcomes by Mr. Pradeep Henry
16. Why Design Thinking Helps Identify Great Artificial Intelligence Use Cases by Mr. Sojan George & Mr. Rajeev Mullakkara Azhuvath
17. Operating System Security – A Short Note by Mr. Kunal Abhishek & Dr. E. George Dharma Prakash Raj
18. Data Privacy – Yesterday, Today & Tomorrow – An Overview by Mr. Ramkumar Ramachandran
19. Universal Acceptance: The concept that all domain names should be treated equally
20. IEEE Xplore® Digital Library Continues to be Your Career Partner by Dr. Dhanukumar Pattanashetti
21. Why Standards Matter? IEEE Standards Development Initiative in India by Mr. Srikanth Chandrasekaran
22. e-commerce -- Past, Present and the Future by Mr. K. Vaitheeswaran
23. Starvation Deaths, Migrant Labour, Gypsies and Blockchain by Mr. Santosh K Misra IAS
24. Detecting fake news and information by Dr. Paromita Pain
25. Neuromarketing: An Overview by Prof. K. Ganapathy
26. Management Lessons from a Rural Indian Water Project by Mr. Sathish Vaidyanathan
27. Building Tech startup culture through colleges for generating National and International Opportunities by Mr. B. Parameshwar Babu
28. Startups as an investment asset class by Mr. Sanjay Mehta

29. The Progress and Value of Patents in India by Dr. Kalyan Kankanala
30. Making an Impactful Presentation by Dr. Ch. Aswani Kumar
31. 5 Key Types of Workplace Harassment and Ways to Stop it. by Ms. Viji Hari

ICNL wishes to add that the above 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.

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

- Big-Data Analytics for Cloud, IoT and Cognitive Computing
- Indian Patent Law and Practice
- Management Immemorial: Learnings from Literature
- BCC: Behind Closed Cubicles
- TITAN: Inside India's Most Successful Consumer Brand
- Leading and Motivating Global Teams: Integrating Offshore Centers and the Head Office
- Spark: The Power to Become Big is Within You
- Fundamentals of High - Voltage Engineering
- Social Media & Mobile Marketing

We are also happy to have published the excerpts from the book "BCC: Behind Closed Cubicles" 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 mar-May 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 may also be of interest to our readers The archives of these blog posts can be accessed at <https://goo.gl/VGXizd> A no. of important announcements which include events such as TENCON-2019 and INDICON-2019, IC Awards, guidelines, useful links also appear in Part 1 of the issue which will interest our readers.

We wish to thank Dr. B. Satyanarayana (Secretary, IEEE Bombay Section) Guest Editor for the Special Section (Part 2) on Sir JC. Bose for his efforts in coordinating with the speakers in getting the articles written based on the presentations made during the 160th Anniversary Celebration organised on 17th Feb 2019 at Bangalore, a task most difficult. This special section comprises of the following seven informative articles which have interesting historical facts.

1. Sir Jagdish Chandra Bose: Scientist Par Excellence: A Tribute by Dr. B.S. Sonde
2. Jagdish Chandra Bose: The Physicist who was forgotten by Dr. D.P. Sen Gupta
3. Sir Jagdish Chandra Bose, James Clerk Maxwell and there on..... by Dr. S. Pal
4. mmWave Applications in NextGen Wireless Broadband Evolution in 5G Era: Impact of Sir JC Bose invention by Mr. C.S. Rao, Ms. Arpita Hura and Ms. Mouna Jain
5. Radio Astronomy: How J.C. Bose's invention opened a new window to the Universe by Dr. Yashwant Gupta
6. Design and Construction of Working Replica of Sir J.C Bose 60 GHz Experiment by Dr. Shaik Kareem Ahmmad, Dr. Syed Ilyas Mohiuddin and Dr. Mohammed Arifuddin Sohel
7. Sir Jagdish Chandra Bose: Biologist, Biophysicist, Botanist, Physicist, Archaeologist and Polymath by Mr. Sudhir Phakatkar

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.