

### Technical Program Committee

Dr. T. Suresh, Professor, RMK Engineering College, Chennai  
 Dr.B. Paramasivam, Professor & Head, CSE, MEC, Tamil Nadu  
 Dr.M.P. Flower Dasran, Professor, Noida Institute of Engineering & Technology  
 Dr.K.S. Shaji, Principal, Sreejith Engineering College, Hyderabad  
 Dr.D. Subash, Professor, Mangalam College of Engineering, Kerala  
 Dr.M.V. Rajesh Malleyckal, Head of Dept. of ECE, College of Engineering, Poonjar  
 Dr.Rajesh Joseph Abraham, Department of Aeronautics, Indian Institute of Space Science & Technology  
 Dr.Binesh T, M.Tech Engineering College, Cochin, Kerala  
 Dr.Rajesh J., Professor & HOD, Department of Electronics and Communications, College of Engineering, Kerala  
 Dr.Jayakumar, Professor, ECE, Mar Baselios College of Engineering & Technology, Kerala  
 Dr.N.Haritharan, Dean, Adi Shankara Institute of Engineering & Technology, Kerala  
 Dr.Durai Rangaswamy, Professor, Adi Shankara Institute of Engineering & Technology, Kerala  
 Dr.S.Krishna Kumar, Professor, Federal Institute of Science and Technology, Kerala  
 Dr.P.Babu Aartherson, Principal, Younus Institute of Technology, Kerala  
 Dr.A.Shanatha Raja, ECE Dept., Alagappa Chettiar College of Engineering and Technology, Tamil Nadu  
 Dr.Bharathi, ECE Department, University College of Engineering, Nagercoil, Tamil Nadu  
 Dr.R.K.Selvakumar, Professor, CVR College of Engineering, Hyderabad  
 Dr.K.Jeyakumar, General Manager, SCAD Group of Institution, Tamil Nadu  
 Dr.S.Jeevananthan, Professor, Electrical and Electronics Engineering, Poodicherry Engineering College  
 Dr.T.Sreedhar, Executive Director, CTRHO (Contemporary Talent Hunt Research Organization), Tamil Nadu  
 Dr.T.Ragupathi, Department of Chemical Engineering, NIT, Surathkal  
 Dr.P.Arjun, HOD (i/c), Computer Science and Engineering, University College of Engg., Villupuram  
 Dr.K.Indhrajayakumar, Dy. Director, Centre for University-Industry Collaboration, Anna University, Chennai  
 Dr.A.Anitha, Asst Professor, Bharathiar College of Engineering, Madurai  
 Dr.A.KrishnaVenil, Government College of Engineering, Thrissur, Tamil Nadu  
 Dr.C.Balamurugan, Dy. General Manager, Kochi Metro Rail Limited, Kerala  
 Dr.J.Suresh Kannan, Department of Mechanical Engineering, SRM University, Chennai

### National Advisory Committee

Dr.Vrinda V Nair, Professor & Dean, Research, AITJ Abdul Kalam Technological University (KTU)  
 Dr.Rekha K James, Professor, Division of Electronics, School of Engineering, Kerala  
 Mr.S.Thomas, CEO, Digital Core Technologies, Kerala  
 Mr.Sasi Pilcheri Meethal, Chair CAB, IEEE Kerala Section  
 Mr.R.Nandakumar, Convener CAB, IEEE Kerala Section  
 Dr.N.Mohan Kumar, Principal, SJP Engineering College, Tamil Nadu  
 Dr.R.Kallimuthu, Scientist / Engineer SC / IPRC / ISRO, Mahendragiri  
 Dr.N.Krishnan, Professor & Dean, Marcomentam Sundararam University, Tamil Nadu  
 Dr.Suresh Babu, Principal, Sree Bhadrha College Of Engineering, Kerala  
 Dr.Angusuman Sankar, Sr IEEE Member, Kalyani Government Engineering College, West Bengal  
 Dr.Chandan K Sankar, Sr IEEE Member, Professor, Dept. of ETEE, Jadavpur University, Kolkata  
 Dr.G.Saravana Rangoo, EEE Department, National Institute of Technology, Trichy  
 Dr.Manjalah D.H., Professor & Chairman of BOS, Mangalore University, Karnataka  
 Dr.M.Manikandan, MIT – Campus, Anna University, Chennai  
 Dr.Nandakumar A.N., Professor, CVSS Institute of Engineering & Technology  
 Dr.Kumaravel, Professor, Vellore Institute of Technology, Tamil Nadu

### International Advisory Committee

Prof. (Dr) Viranjay M. Srivastava, Howard College, University of Kwazulu-Natal, South Africa  
 Prof. (Dr) Muhammad Sarfraz V, College of Computing Sciences & Engineering, Kuwait University, Kuwait  
 Dr.Zengshi Chen P, Shanghai Institute of Technology, China  
 Prof. Hong Jer Lang, Chief Research Officer, Evoxil Technologies Sdn. Bhd., Malaysia  
 Prof. George K. Karagiannidis, Director of Telecom. Sys. & Net. Lab, Aristotle University of Thessaloniki, Greece  
 Dr.Shal Kumarawadu, Professor, Department of Electrical Engineering, University of Moratuwa, Sri Lanka  
 Dr.X.Felix Joseph, Dept of ECE, Blue Hills University, Ethiopia  
 Kun Chang Lee, Samsung Advanced Institute for Health Sciences & Technology, South Korea  
 Prof. Abdennour H Rhalibi, Head of Gam. Games Research Lab Liverpool John Moores University, UK  
 Yiu-Wing Leun, Professor, ECS, Hong Kong Baptist University, Hong Kong  
 Dr.Jagannathan Sarangapani, Distinguished Professor, Missouri University of Sci. & Tech., Rolla, US  
 Dr. Hamed Vahdat-Nejad, University of Bejrut, Iran  
 Prof. Basim Alhadidi, Al-Balqa' Applied University, Jordan  
 Prof. Ir. Dr Vigna Kumaran Ramchandaramurthy, Universiti Tenaga Nasional, Malaysia  
 Dr.T.G. Thomas, Professor, BITS, Dubai Campus, Dubai  
 Dr.G.Thomas Bellarmine, Professor, Florida A and M University, Tallahassee  
 Dr.Denis Sharp, Technical Director, ESAR Holdings Ltd, London  
 Dr.Yasir, Ibrahim Jerash University, Jordan  
 Prof. A. Alphonse, School of ILL, Nanyang Technological University, Singapore  
 Prof. Ramasamy S, Senior Professor, Addis Ababa Science & Technology University, Ethiopia  
 Dr.Jehan Murgadhas, Nawra College of Technology, Sultanate of Oman  
 Prof. Dr. Mohammed Abdo Tuko, Addis Ababa University, Ethiopia

### Registration Fee

	Non-IEEE Members		IEEE Members	
	Indian	Foreign	Indian	Foreign
PG/Full Time Research Scholars	₹ 4500	250 USD	₹ 4000	200 USD
Academicians	₹ 5000	350 USD	₹ 4500	300 USD
Industry Delegates	₹ 6500	350 USD	₹ 5500	300 USD
Accompanying Person	₹ 2000	250 USD	₹ 2000	200 USD

\*Fees once paid are non-transferable, non-adjustable and non-refundable under any circumstances.

### Contact us

<b>Ms. Deepa Elizabeth George</b> Conference General Chair, ICETIETR2K18 HOD, Department of EEE, Toc H Institute of Science and Technology, Arakkunnam, Ernakulam, Kerala - 682 313 India, Mobile: +91 9447820280	<b>Dr. S.Perumal Sankar</b> Conference Organizing Chair, ICETIETR2K18 Professor, Department of ECE, Toc H Institute of Science and Technology, Arakkunnam, Ernakulam, Kerala-682 313 India, Mobile: +91 9486452204
--	---



## International Conference on Emerging Trends and Innovations in Engineering and Technological Research

# "ICETIETR 2018"

Technically Co sponsored by Kerala IEEE Section

11-13, July 2018



Organised by  
**Electronics and Communication Engineering Department**  
**Toc H Institute of Science and Technology**

ISO: 9001-2015 Certified Institutions

Arakkunnam, Ernakulam, Kerala 682 313, India

Phone: (0484) 2749388, 2749600, 2738126

Email: mail@tistcochin.edu.in / website: www.tistcochin.edu.in

Conference Website : www.icetietr2k18.com

## TIST

Toc H Institute of Science and Technology (TIST) is not merely another Engineering College producing hordes of Engineering graduates every year. It is more than a center of learning and home to a diverse community of innovators and entrepreneurs. In every classroom and laboratory, you'll find unique people who are passionate about learning, teaching and collaborating on groundbreaking technologies.

TIST prepares future leaders through an innovative engineering education that bridges Science and Technology, Enterprise and Society. We inspire our students to indulge in research, innovation and excellence, so that they can benefit from valuable hands-on learning opportunities and real-world experiences. We aspire to be a home to innovative minds making new discoveries, groundbreaking inventions, and top-flight graduates – all contributing to the strength of our economy and the health and vitality of our community.

This institute is an ISO: 9001-2015 certified, and NBA(National Board of Accreditation) accredited for four UG programmes (Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering and Mechanical Engineering). It is approved by AICTE and affiliated to APJ Abdul Kalam Technological University, Kerala, India. TIST has established an independent research centre-'J C Bose Centre for Research & Advanced Studies'. It was launched by Dr. A.P.J Abdul Kalam, Former President of India. The institute offers Seven Under Graduate courses, Seven Post Graduate courses including MBA. For more details, visit our college website: [www.tistcochin.edu.in](http://www.tistcochin.edu.in)



## ICETIETR

ICETIETR 2018 is an annual International Conference on Emerging trends and Innovations in Engineering and Technological Research. The conference seeks submissions from Practicing Engineers and Technologists, Scientists from R & D Institutions, Faculty members of Engineering colleges, Research Scholars and Students presenting novel research on all theoretical and practical aspects of data. Papers describing the application of Contemporary Engineering and Technology, the implementation of systems, and lessons learned are also encouraged. Papers describing new methods of technologies, advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged.

IEEE paper template can be downloaded from the conference website :

[www.icetietr2k18.com](http://www.icetietr2k18.com)

**Keynote Speakers :** Prof. **Hong Jer Lang**, Chief Research officer, Crouk Technologies Sdn. Bhd., Malaysia

Dr. **R. Rajesh Kannan**, Scientist E, Centre for Nanoscience and Nanotechnology, (A part initiative of IISER) Hyderabad & Sathyabama Institute of Science and Technology, Chennai.

Dr. **R. Balaji**, Scientist, Centre for Fast Cell Technology, ARCI, Chennai.

Accepted papers will be submitted for inclusion into IEEE Xplore.

Authors are invited to submit original, unpublished technical papers under the following topics but are not limited to:

- Bio Medical Instrumentations & Applications
- Communication Systems, Remote Sensing
- Communication & Networking
- DSP/Image Processing/Pattern Recognition
- Antennas, RF Microwave
- Embedded System Technologies
- Broadband & Cellular Networks
- Communication, Cognitive Radio & Cognitive networks
- Cyber Security & Encryption Techniques
- Integrated Systems, Circuits, VLSI
- Aerospace Engineering
- Computer Engineering and Recent Developments
- Software Engineering, Computer Applications
- Multimedia Technology, Robotics
- Cloud Computing, Information Security Systems
- Nano Technology
- Intelligent Control
- RF MEMS, Mechatronics
- Neural Networks & Fuzzy Systems
- Big Data
- Control and Instrumentation Engineering
- High Voltage Engineering, Power Electronics and Drives
- Modern Trends in Electrical Engineering
- Power Systems Engineering
- Electrical Drives and Embedded Control

### Important Dates

- 30th April, 2018 Last Date for Full Paper Submission
- 31st May, 2018 Acceptance Notification
- 22nd June, 2018 Last Date for Camera Ready Paper
- Conference dates
- 11-13, July, 2018

## Organizing Committee

### Chief Patrons

**Dr. K. Varghese**  
Founder Director & Manager  
Toc H Public School Society

**Prof. (Dr) P.J. Joseph**  
President  
Toc H Public School Society

### Patrons

**Mr. K.A. Simon**  
Secretary  
Toc H Public School Society

**Mr. M.X. Paul Vincent**  
Treasurer  
Toc H Public School Society

**Prof.(Dr)Preethi Thekkath**  
Principal  
Toc H Institute of Science and Technology

**Prof.(Dr) R Ravindran Nair**  
Dean (Academic & Student Affairs)  
Toc H Institute of Science and Technology

### Honorary Chairs

**Er.Sasi Pilacheri Meethal**  
Chair, CAB, CDAC  
Thiruvananthapuram, India

**Er.Nandakumar R**  
Convener, CAB, IEEE Kerala Section  
NIELIT, Calicut, India.

### Conference General Chair

**Ms.Deepa Elizabeth George**  
HOD, Electronics & Communication Engineering  
Toc H Institute of Science and Technology

### Conference Organizing Chair

**Dr. S.Perumal Sankar**  
Professor, ECE Department  
Toc H Institute of Science & Technology

### Conference Publication Chairs

**Dr. N.Vishwanath**  
Professor, CSE Department  
Toc H Institute of Science & Technology

**Dr. S.Perumal Sankar**  
Professor, ECE Department  
Toc H Institute of Science & Technology