



SIXTH NATIONAL CONFERENCE ON
**COMMUNICATION, INFORMATION
TECHNOLOGY & ELECTRONICS-CITEL'18**

10th & 11th April 2018

PRE - CONFERENCE WORKSHOPS
IEI sponsored Two days workshop on
**CURRENT RESEARCH CHALLENGES IN SPEECH
SIGNAL PROCESSING AND ITS APPLICATIONS**

09th-10th April 2018

WORKSHOP ON M2M-LORA

(A path Way to Smart Cities)

09th-10th April 2018

PROJECT COMPETITION
DA-WIN-COMPETITION

An Innovation Challenge

10th April 2018

09th-11th April 2018 | Kumaraguru College of Technology

Organized by,
Department of Electronics and Communication Engineering,
Kumaraguru College of Technology,
Coimbatore
www.kct.ac.in



ABOUT KCT

KCT is an autonomous Institution established in 1984, under the aegis of Ramanandha Adigalar Foundation, a charitable trust of the Sakthi Group. KCT is accredited by NAAC with A grade and ranked in top 100 for two consecutive years by NIRF. KCT offers 13 undergraduate and 14 PG programs with student strength of over 6000. KCT is situated in a 150 acre campus in the IT corridor of Coimbatore city has good infrastructure and facilities to aid academic research and study.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics & Communication Engineering was started in the year 1987. The Department offers 4 year NBA Accredited B.E. degree programme in Electronics & Communication Engineering and two full-time PG programmes in Communication Systems & Applied Electronics. The Department has a team of well-qualified, dedicated faculty members with adequate industrial and research background. The Department is fully equipped with state-of-the-art laboratories with high-end computers and software tools. The laboratories include VLSI, DSP, Optical & Microwave Engineering, RF/Communication, Microprocessors & Microcontrollers.

ABOUT THE CONFERENCE

The advancements in the fields of Information technology and communication has enabled the world to move towards a newer order. The pace with which 4G vis-a-vis 5G technologies information technologies and Embedded systems have evolved necessitates frequent interaction between academia and industry to understand and develop compatible standards and visualize better applications. The aim of the National Conference on "Communication, Information Technology & Electronics"(CITEL2018) is to provide a forum for scientific debate and constructive interaction between all participants. The event constitutes a valuable opportunity not only for knowledge exchange but also for fruitful collaborations between scientists, researchers, faculty and students. Two keynote sessions have also been arranged in emerging Communication Technology and Embedded systems. The conference also includes to pre- conference workshops Current Research Challenges In Speech Signal Processing and Its Applications, Workshop On M2M-LoRa and a project competition Da-Win-Competition.

ORGANIZING COMMITTEE

CHIEF PATRONS

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Chairman, KCT

Thiru M.Balasubramaniam
Correspondent, KCT

Shri Shankar Vanavarayar
Joint Correspondent, KCT

PATRON

Dr.J.Senthil
Principal, KCT

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Mr. S. David, AP/ECE

CALL FOR PAPERS

Papers are invited in multi disciplinary areas including but not limited to:

- Digital Signal Processing
- Digital Image Processing
- Pattern Recognition
- Biometrics
- Biomedical Engineering
- RF & Microwave Communication
- Communication Networks and Security
- Wireless Communications & Standards
- Computer & Optical Networks
- Coding Techniques
- VLSI & Embedded Systems
- Software Defined Radio
- Internet and Multimedia Systems
- Soft Computing
- Internet of Things
- Green Computing
- Cloud computing
- Robotics
- Remote sensing
- Bioinformatics
- Automotive Electronics
- Power Electronics
- Machine Vision
- Agricultural Engineering

IMPORTANT DATES

Paper submission	: 27-03-2018
Intimation	: 30-03-2018
Camera Ready	: 02-04-2018

ADDRESS FOR COMMUNICATION

Convener, CITEL 2018
Department of Electronics and
Communication Engineering
Kumaraguru College of Technology
Coimbatore – 641 049, Tamil Nadu.

Phone : (0422) 2661220
Fax : (0422) 2669406
Email : ececitel2018@gmail.com
website : www.kct.ac.in



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SUBMISSION GUIDELINES

Authors should mail the soft copy of their original and unpublished papers in MS-Word not exceeding 6 pages in IEEE double column format (Times New Roman script of font size 12) through easy chair link. All papers will be reviewed by peer committee. The authors must submit camera ready manuscript after incorporating the modifications if any within deadline.

Extended version of the papers will be considered for publication in Journals indexed in scopus / web of science / Anna University Annexure I.

REGISTRATION FEE

	Conference only	M2M-LoRa	Speech Signal Processing and its Applications	Da-Win-Competition (Project Contest)	One workshop+ Conference	Project Contest+ Conference (Participation Only)
Students/Re-search Scholars	₹ 1000	₹ 750	₹ 750 (600 for IETI members)	₹ 1500 (per team)	₹ 1500	₹ 2000 (per team)
Faculty	₹ 1500	₹ 750		-	₹ 2000	-
Industry/ R&D Institutions	₹ 2000	₹ 1000	₹ 1000 (800 for IETI members)	-	₹ 2500	-
Participation only	₹ 500	-	-	-	-	-

ADVISORY COMMITTEE MEMBERS

Dr.PUTTAMADAPPA.C, Registrar,
Dayananda Sagar University, Bangalore

Dr.G.NAGARAJAN, Professor
Dept. of ECE, Pondicherry Engineering College,
Pondicherry

Dr.K.GUNAVATHI, Professor
ECE, PSG College of Technology, Coimbatore

Dr.P.T.VANATHI, Professor
ECE, PSG College of Technology, Coimbatore

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ABV-Indian Institute of Information Technology &
Management, Gwalior

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Gokaraju Rangaraju Institute of Engineering and
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CSE Department, K L University, Andhra Pradesh

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The Institution of Engineers, Coimbatore

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Sri Venkateswara Institute of Technology, Chennai

Dr. J.N.SWAMINATHAN, Professor
Madanapalle Institute of Technology and science, Andhra
Pradesh

Ms.G.R. NISHA, Scientist/Engineer
"SF", ISRO, Trivandrum

Dr.M.UTTARAKUMARI, Professor
Dept. of ECE, R V College of Engineering, Bangalore.

Dr.E.SOMMASUNDARAM, HOD
Dept. of Sustainable Organic Agriculture, TNAU

Dr.PA.MANOHRAN, DRDO, Chair
IEEE Madras Section



IEI sponsored Two days workshop on

CURRENT RESEARCH CHALLENGES IN SPEECH SIGNAL PROCESSING AND ITS APPLICATIONS

ABOUT THE WORKSHOP

Speech Processing is a scientific discipline as well as a technology frontier with immense real-time applications. On one side of the spectrum is the speech and language science and on the other side are the signal processing theory and pattern recognition and artificial intelligence. This results in enhanced human-human & human machine communication systems. Pursuit of such wide-ranging research and development demands a broad base of fundamental knowledge, as well as the mastering of algorithms and techniques.

This workshop brings together many different aspects of the current research challenges in the area of speech signal processing like Speech production and analysis, Speech and Speaker Recognition, Speech coding, Emotion recognition and Speech Synthesis. The workshop is handled by the eminent persons from Industry and Academic Institutions.

OUTCOMES OF THE WORKSHOP

- To educate participants with current research challenges in area of speech signal processing.
- To enhance research knowledge in speech processing.

The program is open to Academia and industry. Registration is on first-come first-serve basis only. Registration includes participation kit with certificates along with, lunch and refreshments. Total number of participants is strictly limited to 30 only.

COURSE OUTLINE

- Introduction to speech signal processing
- Research Challenges in Speech Processing
- Overview on Speech and Speaker Recognition
- Deep learning in Speech recognition
- Emotion recognition
- Speech coding / Speech synthesis
- Hands-on Laboratory sessions by industry experts.

IMPORTANT DATES

Last Date for Registration : 06.04.2018

Intimation of Acceptance : 07.04.2018

COORDINATORS CONTACT

Ms.S.Sasikala, Asso.Professor, ECE
9443525425 | sasikala.s.ece@kct.ac.in

Mr.S.ArunKumar, Asst. Professor, ECE
9003787951 | arunkumar.s.ece@kct.ac.in

Workshop on M2M-LoRa

(A path Way to Smart City)

ABOUT M2M-LORA

With the advancement of Technology for Internet of Things, LoRa® wireless solution is used to address increasing demands on end-devices for long range connectivity, low-power for battery operation, and low infrastructure cost for volume deployment, the ultimate solution for eliminating repeaters and finally improving network capacity. LoRa technology provides significant advantages in both blocking and selectivity over conventional modulation techniques, solving the traditional design compromise between range, interference immunity and energy consumption. LoRa long range wireless products LoRa Technology is ideal for battery-operated sensor and lowpower applications such as Industrial Automation,IOT,M2M,Smart City,Smart Agriculture.

Hands on experience in programming and configuration of LoRa motes , our workshop will guide you step by step tasks to develop M2M/IOT-LoRa products which supports smart city Projects. The workshop is handled by eminent persons from Industry.

WORKSHOP CONTENT

Introduction

- Introduction to M2M/Machine type Devices /Architecture/Standards
- M2M Communication and Networking technology for IoT
- M2M applications and services.
- LoRa specifications and Applications

Hands On

- LoRa Configuration
- LoRa System Configuration
- Class A Configuration
- Transceiver (frequency, Power , BW, Δf etc.) Configuration and
- Testing,point to point and networking.
- LoRa Gate Way Configuration and Networking of LoRa Motes
- Creating an IOT/M2M Network Using LoRa and LoRaWAN
- Application development
- Case studies- Smart City/village planning and model.

Kits Used

LoRa Mote(RN2483-433 & 868MHZ) and LoRa WAN GateWay

Outcome

1. To familiarize with M2M/IoT, RF communication and Architecture.
2. To identify the requirements of Smart cities.
3. To design an M2M/IOT network for smart cities
4. To develop application modules for Smart cities.

IMPORTANT DATES

Last Date for Registration : 06.04.2018

Intimation of Acceptance : 07.04.2018

COORDINATORS CONTACT

Mr.R. Karthikeyan, Asst. Professor, ECE
8148357698 | karthikeyan.r.ece@kct.ac.in

Mr.S.Karthik, Asst. Professor, ECE
9443121312 | karthik.s.ece@kct.ac.in

Mr.Timothy Dayakar Paul, Asst. Professor, ECE
9791383414 | timothy.ece@kct.ac.in

Da-Win-Competition

An Innovation Challenge

Da-Win-Competition is a innovation challenge organized by Department of Electronics and Communication Engineering, KUMARAGURU COLLEGE OF TECHNOLOGY, Coimbatore on 10th April 2018. This focuses on Project competition with exhibition of ideas through Poster presentation and hardware implementation.

Projects play a very vital role in enhancing the learning and skill development of the engineering graduates. In line with the industry requirement of the engineering graduates to be highly skilled and with best attitude along with technical knowledge, Da-Win-C encourages technical innovations, team work and research and development among the students.

THEMES

- Healthcare
- Assistive systems for people with disabilities
- Clean water and energy
- Agriculture
- Waste Management
- Disaster management
- Women safety
- Robotics

COORDINATORS (DA WIN)

Dr.Ramalatha Marimuthu, Prof/ECE

Ms. P. Pavithra, AP/ECE

Ms. Shiji Shajahan, AP/ECE

Ms. Ashwini A Metri, AP/ECE

IMPORTANT DATES

Submission of project details	: 05th February 2018
Extended till	: 05th March 2018
Submit @ dawinc2018@gmail.com	
Selected projects/ Announcement	: 10th March 2018
Registration Open	: 10th March 2018
Registration close	: 05th April 2018
Project & Poster Expo	: 10th April 2018

Total Prizes Worth Rs.43000

**ONLINE
REGISTRATION**



REGISTRATION FORM

Name :

Designation :

Qualification :

Institution :

Address for communication:

Phone:

Mobile:

Email:

Category (please tick) faculty / student/ others

Title of the events and paper:

Payment details:

Dd no. :

Date :

Bank :

Amount :

Registration fee to be paid through a Demand Draft drawn in favour of "HOD-ECE" payable at Karur Vysya Bank, Coimbatore or through NEFT Transfer.

Account no :1245 1550 0007 1984

Ifsc code: kvbl0001245

Date:

Place:

Signature of the applicant



Kumaraguru College of Technology
Chinnavedampatti, Coimbatore 641049
0422-2661100 | info@kct.ac.in