

**2 DAYS SEMINAR  
ON  
STATISTICAL METHODS FOR BIO-SIGNAL AND  
IMAGE PROCESSING**

**( 23<sup>rd</sup> & 24<sup>th</sup> Feb, 2017)**

1. Name:.....

(Block letters)

2. Gender: M/F

3. Designation:.....

4. Institute/Organization:.....

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5. Address for communication:.....

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PIN:.....Tel:.....

Mobile:.....

Email:.....

6. Accommodation required: Yes/No

7. Registration fee (Non-refundable):.....

8. DD No:.....Date:.....

Bank Name:.....

Signature of the Participant

Endorsed by Head of Institute/HOD

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**Organized by**

**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**in association with**

**CENTER FOR HEALTH CARE TECHNOLOGIES**

**SSN COLLEGE OF ENGINEERING,  
RAJIV GANDHI SALAI (OMR),  
KALAVAKKAM - 603 110,  
TAMIL NADU, INDIA.**

**[www.ssn.edu.in](http://www.ssn.edu.in)**

## ABOUT SSNCE

SSN Institutions, founded by Dr. Shiv Nadar, Chairman, HCL Technologies, stands out as a premier centre for higher learning with a mission of pursuing excellence in education and research. The institution, with their diverse and dynamic community of students offers a distinctive combination of some of the finest undergraduate, postgraduate and research programs, accomplished faculty, and world class facilities. SSN Institutions provide a variety of stimulating environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibilities in the society. Student life also includes participation in research, sports, recreational & co-curricular activities.

## ABOUT THE DEPARTMENT

The department of biomedical engineering was started in the year 2005. The department got recognized as a research centre in 2011 and diverse projects, on various areas of biomedical engineering are being guided by our research supervisors in the field of image/signal processing, cognitive neuroscience, biomedical instrumentation etc., helping the department to progress more towards research and identifying and validating, novel concepts and techniques. The department has healthy interactions with National Instruments, Texas™ Instruments, Biopac™ Systems Inc., Aries Biomed, Global Hospitals, Chennai, SRMC, Chennai, and many more, where the industrial and hospital experts are invited to deliver lectures, conduct workshops, pursue consultation work, hardware/software testing and training, and for other diverse activities.

## ABOUT THE SEMINAR:

Signal and image processing techniques nowadays allows us to predict unobserved biological processes from non-invasive measurements, identify specific impairments, reliably screen large populations for common medical conditions (such as breast cancer) and allow us to automatically compare physiological properties between different populations (such as, for example, the change in the size of certain brain regions in epilepsy patients). Therefore ability to understand, analyse and interpret data has become increasingly important in the health care domain. Big data analytics remains a primary focus of the healthcare industry, both in terms of delivering effective outcomes and controlling the costs. Handling, understanding and extracting knowledge from data requires the application of statistical principles

## KEY NOTE SPEAKERS :

1. **Dr Ganesh Murthy CNS**, Principal Engineer, Mercedes-Benz Research and Development India, Pvt Ltd, Bangalore.
2. **Dr Kumar Rajamani**, Architect, Robert Bosch, Bangalore
3. **Dr Suganthi S.S**, Technical Lead Tata Elxsi, Chennai
4. **Dr. Kayalvizhi** , Head, Department of BME, Agni College of Technology , Chennai

## THRUST AREAS:

The seminar mainly focuses on the following topics, but it is not confined to these alone, many more topics of interest will be discussed by the experts.

- Basic Theory of Wavelets and their Implementation (Hands on session)
- Mathematical approach towards Bio-signal and image Processing
- Current trends in Medical image analysis using Artificial Intelligence, Machine learning and Deep Learning
- Feature Based Medical Image Segmentation and Classification Techniques using Random Forests

Category	Registration fee (Rs)
Internal Student	500
Internal faculty	800
External student	800
External Faculty / Research scholar	1000
Industry	1500

## REGISTRATION

Registration fee is payable by Demand Draft (DD) in favour of “The Principal, SSN college of Engineering” at Chennai. The fee includes seminar kit, refreshment and lunch on the seminar days.

## ACCOMMODATION

Accommodation will be facilitated for the selected participants on first-cum-first-serve basis in the college hostel(s) on sharing and payment basis depending on availability. Participants requiring accommodation in the SSNCE hostel(s) are requested to inform the co-ordinators by email to [delphaj@ssn.edu.in](mailto:delphaj@ssn.edu.in)/ [divyab@ssn.edu.in](mailto:divyab@ssn.edu.in) on or before 15<sup>th</sup> February 2017.