



NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA
(CoE-OTER) Sponsored Workshop
on
RECENT TRENDS IN MEDICAL SIGNAL AND IMAGE
PROCESSING (RTMSIP 2017)
25-26 Mar, 2017

[Registration form]

1. Name:
2. Position:
3. Department:
4. Institution/Organization:
5. Address:
6. E-mail Address:
7. Mobile No.:

Accommodation Required: Yes / No

Date:

Place:

Signature of the Applicant

Forwarded through Head Dept./ Institution.

ABOUT NIT ROURKELA

National Institute of technology, Rourkela is one of the premier center for teaching, research and industrial consultancy. The institute has 22 academic departments. The campus is situated in the green environment.

Rourkela is located in the north-western tip of the Indian state Odisha at the heart of a rich mineral belt. It is surrounded by a rose of hills and encircled by rivers. One of the largest steel plants of the steel authority of India limited is situated here.

DEPARTMENT OF ELECTRICAL ENGINEERING:

The Electrical Engineering department at NIT Rourkela has specialized faculties in all important areas of electrical engineering such as communication & signal processing, power system, power electronics & drives, control & automation and industrial electronics. The department has well equipped laboratories and the academic and research activities in the department focus on the frontier areas of electrical engineering.

IMPORTANT DATES:

Receipt of applications : **March 24, 2017.**

Course duration: **March 25 to March 26, 2017.**

Workshop on
RECENT TRENDS IN MEDICAL SIGNAL
AND IMAGE PROCESSING

(RTMSIP 2017) 25-26 MAR, 2017

Sponsored by
Centre of Excellence in Orthopaedic Tissue
Engineering & Rehabilitation (CoE-OTER)
under TEQIP-II



Prof. D. Patra, Prof S. Das
& Prof. K.R. Subhashini

Organized by

Department of Electrical Engineering
National Institute of Technology Rourkela
Odisha-769008, India

INTRODUCTION:

Medical signal and image processing techniques have revolutionized the health care delivery around the world. Medical signal acquisition is the technique to monitor the cardiac condition and medical imaging is the process of creating visual representations of the interior of a body for clinical analysis and medical intervention. Now a days, signal and image processing advances so rapidly in the biomedical field that all of those working in it, i.e. scientists, engineers, physicians, educators and others, need to frequently update their knowledge in order to stay abreast of the developments.

This course will be organized by the Electrical Engineering Department, NIT Rourkela during 25-26 March, 2017 sponsored by Centre of Excellence in Orthopaedic Tissue Engineering & Rehabilitation (CoE-OTER) under TEQIP-II scheme. The goal of this workshop is to explore the insights of advanced signal and image processing solutions for emerging challenges in biomedical applications.

TOPICS TO BE COVERED:

- ❖ Current Clinical Problems and Advanced Signal Processing and Image Processing Techniques to handle.
- ❖ Overview of biomedical signal and image acquisition and their clinical applications.
- ❖ Quantitative medical signal and image analysis and Hands on practice.

SCOPE OF THE PROGRAMME:

This workshop offers an unique opportunity to acquire comprehensive knowledge and strengthen skills in current state-of-art research in the field of medical signal and image processing. This will provide a forum for discussion on theoretical as well as practical aspects of advanced and upcoming medical signal and image processing technologies, exchanging research ideas, exploring challenges and possible solutions and future scope of the research. Eminent experts from IITs and Medical Industries will be invited to deliver the expert lectures on various topics related to the workshop.

Scope of the course is to introduce basics of medical signal processing, analysis, interpretation for correlating them with specific features related to disease classification, clinical Applications. Also the scope is towards medical imaging, i.e. Computed Tomography (CT), Magnetic Resonance Imaging (MRI) and blood microscopic images etc. and how these are currently being used in clinical practice. Understanding the limitations of the existing techniques, finding the signal and image processing solutions for medical applications will be the main focus of the course. The course is designed for academia (Students and faculty) and industry persons interested in medical signal and medical image processing technologies.

REGISTRATION

Registration form is available on website.

Website: www.nitrkl.ac.in

Registration starts: **8th March 2017**

Last date of Registration: **22nd March, 2017**

A Scanned Copy of signed registration form may be sent by e-mail.

rtmsip2017@gmail.com

Address for Correspondence:

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(Coordinator: RTMSIP 2017)
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E-mail: rtmsip2017@gmail.com

(Registration kit, course materials,
Accommodation* and Food will be provided)

(* Free Accommodation may be provided in the Institute Guest House first com first basis subjected to availability)