SILVER JUBILEE CELEBRATION
Centre for Medical Electronics

Two Days Work Shop On “NI LabVIEW Fundamentals for Real Time Signal and Video Processing Using Embedded Technology”
October 30th & 31st 2023

Coordinators
Dr. S. Nirmala Devi, Professor
Dr. T. Jayasree, Asst. Professor
Centre for Medical Electronics, DECE

Co-ordinators: Dr. S. Nirmala Devi, Professor
CME, DECE
: Dr. T. Jayasree, Ass. Professor
CME, DECE

IMPORTANT SCHEDULE:
Last Date Submission of Application : 26.10.2023
Intimation of Selection : 27.10.2023

About Centre for Medical Electronics
Centre for Medical Electronics was established in the year 1998 in Anna University, Chennai. The Centre aims to develop affordable and cost-effective medical devices and analysis tools that enhance healthcare in India. The main focus of this centre is Research, Development and Training. The Centre carries out multidisciplinary research in the field of health care. The core strength of the Centre are in research areas such as Cardiac Function Analysis, Development of low-cost rehabilitation aids, Fetal ECG and Uterine Contractile Analysis, Biosensors and Instrumentation, Biosignal Processing, Medical Image processing, Medical Informatics, Brain Electrical Activity Monitoring, Biomechanics, Gait Analysis, Medical Standards, Modeling and Simulation Studies in Medicine, Cognitive Neuroscience, Medical Embedded Systems, Rehabilitation Devices, and Brain Control Interface Applications.

About the Program
This workshop aims at giving hands-on experience by industry experts as resource persons on implementing real time signal and video processing algorithms using graphical programming tool like LabVIEW. This course prepares you to acquire real time data and signal measurement, remote data transfer, cell analysis, image processing using LabVIEW. The hands-on format of the course enables you to quickly apply skills learned in the course to your applications. For those who are familiar with this software can take up CLAD exam course and take up hardware training also.
Objective of the Hands-on Training program

LabVIEW’s primary objectives include simplifying data acquisition, instrument control, and system automation, as well as accelerating the development of custom solutions in a wide range of industries and applications. It is known for its versatility, user-friendly interface, and support for interfacing with various hardware devices, making it a valuable tool in fields where measurement, automation, and control is critical.

Program highlights

At the end of the workshop the participants will be able to:

1. Develop application for signal and image processing algorithm and techniques using LabVIEW
2. Exposure to work with NI smart camera hardware.
3. Developing standalone applications (.exe file) using LabVIEW

Pre-Requisite

Participants need to bring their own fully charged Laptop

Eligibility

Preference to Faculty member’s from colleges affiliated to Anna University & Research Scholars with teaching aspiration can participate.

The number of participants is limited to 50 based on “First come-First serve”. Accommodation & TA/DA will not be provided.

WORKSHOP VENUE

Biosignal and Medical image processing laboratory, No.206, 1st floor, Centre for Medical Electronics, Centre for Excellence Building, Anna university, Chennai-600025.

Registration form

Name (in capitals) : ..............................
Gender : .................................
Qualification : .................................
Designation : .................................
Department : .................................
Experience (in years) : .......................
Institution : .................................
Address for Communication:............... ............................................................
E-mail : ...............................................
Phone (Off.) : .................................
Mobile No. : .........................................

Declaration

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of programme.

Date: ............................................
Signature of the Applicant

Certificate from Head of the Institution/organization

Dr./Mr/Mrs/.................................
............is an employee of our Institute and is hereby sponsored by us. He/She will be permitted to attend the two day workshop, if selected.

Signature with seal HoD

Schedule for the workshop

Day 1 : 30-10-2023
Time: 9.00 am to 4.30 pm

Session 1 : Introduction to LabVIEW & Data Acquisition for biomedical signals using advanced signal processing toolkit.

Session 2 : Real-Time biomedical signal measurement (ECG, EMG signals)

Session 3 : Remote data transfer of biomedical signals

Day 2: 31-10-2023
Time: 9.00 am to 4.30 pm

Session 1 : Introduction to image Processing using LabVIEW & Vision Acquisition

Session 2 : Cell Analysis using Vision Assistant and Biomedical image processing using VBAI

Session 3 : Real-time image acquisition using CVS system

Note: Soft copy of the filled Registration form should be send to the below mail address before 26.10.2023. Hard copy should be submitted on the day of workshop

Email:  sndevi2018@gmail.com
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Address for correspondence

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