

REGISTRATION FORM

National Workshop on Signal Processing for Biomedical Applications

14 – 17 December, 2011

Organized by
Department of Electronics and Communication &
Amrita Biomedical Engineering Research Centre

1. Name:.....
 2. Designation:
 3. Organization:
 4. Mailing Address:
 5. E-Mail
 6. Phone
 7. Accommodation required: YES/NO
 8. DD No.....Bank/Branch.....
- Date: Signature.....

Send this form with DD to:

The Coordinator,
National Workshop on Signal Processing for Biomedical Applications,
Department of ECE, Amrita School of Engineering,
Amrita Vishwa Vidyapeetham, Amritanagar P.O., Ettimadai,
Coimbatore-641 112. Ph: +91 422 2656422, Extn:5721

For further queries contact:

K.U.Radhagayathri / C.M.Preethi / R.Lavanya
Phone: 9894334815 / 9487547352 / 9865816977
Email: spba2011@yahoo.com

For registration form and more details, please visit
<http://www.amrita.edu/spba2011>

About ECE

The department runs B.Tech. programmes in ECE and EIE and post graduate programmes in VLSI Design and Biomedical Engineering. The Biomedical group of the department focuses its research on Biomedical Instrumentation, Biosignal and Image Processing, Medical Imaging, Medical Robotics, Drug Design and Discovery, Biomechanics, Telemedicine and related areas.

About AMBE

Established in 2004, AMBE focuses on developing cost effective biomedical solutions. Dr. Bipin Nair, Dean, Amrita School of Biotechnology is the coordinator of AMBE. AMBE is the only TIFAC CORE for biomedical engineering in the country. AMBE's industrial partners include MDS Pharma Services, USA, Biocon, Bengaluru and Mascon Life Sciences, USA. AMBE's achievements include:

- Low cost, reliable and portable X-Ray digitizer for telemedicine programme of ISRO. (Patented)
- Low cost, reliable Insulin pump for TIFAC CORE. (Patented)
- Low cost, reliable Wi-Fi based patient monitoring system for telemedicine programme, blood glucose sensor and a low cost MEMS based pumping module for external and implantable drug delivery system for Media Asia.

REGISTRATION FEE

₹ 500/- to be paid by DD drawn in favour of "Amrita Vishwa Vidyapeetham, Amrita School of Engineering, Ettimadai", payable at Coimbatore. Registration fee includes working, lunch, snacks & workshop materials. Accommodation can be arranged on extra payment.

IMPORTANT DATES

Last date for registration: **20th November, 2011**
Intimation of selection through e-mail: **2nd December, 2011**

About Biomedical Signal Processing

The diagnosis of medical ailments and anomalies by highly skilled health care professionals may be ambiguous in spite of their expertise. This is because of the subjective nature of their interpretation. Quantitative and objective analysis facilitated by computational intelligence in Biomedical Signal Processing will lead to a more reliable and accurate diagnostic decision. This emphasizes the need for bridging the gap between medical and signal processing fields. The proposed workshop aims to achieve this.

About the Workshop

Highlights:

- Introduction to Signal Processing
- Pre-processing and Segmentation of Biomedical images
- Feature Extraction
- Machine Learning Techniques
- Tools for Processing and Analysis of Biomedical signals
- Mammogram Analysis
- Epilepsy Seizure Prediction
- Speech disorders, and the need to evolve diagnostic tools
- Future research directions
- Demonstration of AMBE products
- Hands-on sessions

Dr. A.ANAND KUMAR



Dr. A. Anand Kumar received MD in General Medicine from Medical College, Trivandrum and DM in Neurology from Sree Chitra Thirunal Institute of Medical Sciences and Technology. He is currently the Head of Department of Neurology at Amrita Institute of Medical Sciences, Kochi. His areas of research interest include cognitive neurology, sleep medicine and biotechnological research.

Dr. A.KANDASWAMY

Dr. A. Kandaswamy received his Master's degree from Madras University and Ph.D. degree from Bharathiar University, Coimbatore. He is the Head of Department of Biomedical Engineering and Product Development Centre, PSG College of Technology, Coimbatore. He is an expert committee member of ASE panel intended for sanctioning Defence Research and Development Organization projects.



Dr. ILA VENNILA

Dr. Ila Vennila completed her B.E. in Electronics and Communication Engineering from Government College of Technology, Coimbatore and M.E. in Communication Systems from College of Engineering, Guindy. She completed her Ph.D. from Bharathiar University in 2005 and is currently working as an Associate Professor in EEE Department at PSG College of Technology, Coimbatore. Her areas of research interest include Biomedical Image Processing, Electronic Circuits, Communication Systems, Digital Signal Processing and Multirate Signal Processing.



Prof. M.RAMASUBBA REDDY

Dr. Ramasubba Reddy has a B.Tech. in Electronics and Communication Engineering and Ph.D. in Biomedical Signal Processing. He is currently working as a Professor of Biomedical Engineering at the Department of Applied Mechanics, Indian Institute of Technology, Madras, where he heads the Biomedical Engineering Laboratory. His research interests include Biomedical Instrumentation, Biomedical Imaging systems and Biomedical Signal Processing.



Dr. BIPIN NAIR

Dr. Bipin Nair received his Ph.D. in Microbiology from University of Baroda, India and post-doctoral training at the University of Tennessee, USA. Dr. Nair held the position of Senior Scientist at MDS Pharma Services in Seattle, USA. He is presently Professor and Dean of the Amrita School of Biotechnology, Amritapuri. He is also the Coordinator of the TIFAC Centre of Relevance and Excellence in Biomedical Technology at Amrita University.

National WORKSHOP on

Signal Processing for Biomedical Applications

14 – 17 December, 2011



Venue : Academic Block III, Seminar Hall No. A302 (2nd floor).

Amrita School of Engineering, Ettimadai



AMRITA
VISHWA VIDYAPEETHAM
UNIVERSITY
Established u/s 3 of UGC Act 1956

Department of Electronics and
Communication Engineering
&
Amrita Biomedical Engineering
Research Centre (AMBE)

