THRIVE laboratory

SMILE laboratory

Jointly Organized

International workshop on Wearable Biomedical devices for Clinical Diagnosis (WeBCD 2024)

JUNE 3rd TO 5th, 2024 **(Hybrid mode)**

About IIITDM Kancheepuram

Indian Institute of Information Technology, Design and Manufacturing (IIITDM Kancheepuram) is an Institute of National Importance established in 2007, by the Ministry of Human Resource Development, Government of India, to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantages of Indian products in global markets. The institute offers academic and research programs that integrate engineering design, manufacturing and management with information technology. With mastery in domain specific design, engineering skills and required managerial expertise, the graduates can become entrepreneurs involved in the design and manufacture of commercially successful electronic or mechanical products.

About the Program

Over the past 20 years, wireless technologies have evolved as promising solutions for moving from laboratory-based mobility measurements to free-living. Several potential wearable devices have been designed for customized mobile healthcare monitoring and management.

Wearable biomedical devices are revolutionizing clinical diagnosis by providing continuous and non-invasive monitoring of vital signs and health parameters outside traditional healthcare settings. These devices, ranging from wearable ECG monitors to continuous glucose monitors and sleep trackers, offer real-time insights into patients' health status. By collecting data over extended periods, they enable early detection of abnormalities, facilitate timely interventions, and empower individuals to take proactive steps towards managing their health. Wearable biomedical devices not only enhance the efficiency of diagnosis but also promote patient engagement and enable personalized healthcare delivery. As technology continues to advance, these devices hold immense promise in transforming the way diseases are diagnosed, monitored, and managed, ultimately improving patient outcomes and quality of life.

Course Content

The Major contents of the program are

- Innovations in the wearable Biomedical industry
- Role of artificial intelligence in Medical technology
- Importance of pre-processing, denoising of data & feature engineering
- Use of machine learning and deep learning algorithm as support entity
- Next-generation wearables medical devices
- Future roadmap and forecast for AI in wearable technology healthcare
- Product Development and IPR
- Industrial demo & interaction

Important Information for Participants

- The proposed workshop is meant to support motivated Faculties and Research Scholars willing to achieve excellence in their scientific and engineering research pursuits in biomedical on wearable technologies
- WeBCD 2024 will be conducted in hybrid mode, and **Registration is Rs.1221/-** for all participants. No TA/DA will be provided and Nonrefundable fee inclusive of 18% GST. Accommodation will be provided on chargeable basis as per institute norms.
- Following the procedures for payment in SBI Collect:
  - https://www.onlinesbi.sbi/sbicollect/icollecthome.htm
  - Steps: ProceedTamil Nadu --> Educational Institutions -> iiitdm - educational events – WeBCD2024 – category
- Upon completion of the course, all participants' objective/quiz-based assessments will be done and certificate will be issued.
- Participants interested in attending this program Should register online at the below-mentioned link: https://forms.gle/9fYqM48dCsJPG9Yu5.
- **Last date of registration: 02.06.2024.** Selected participants will be informed through email.

Cheif Patron

Prof. M.V. Kartikeyan
Director

Patron

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