

2019 IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON 2019)

**Dhaka, Bangladesh
28 – 30 November 2019**



**IEEE Catalog Number: CFP19V58-POD
ISBN: 978-1-7281-5390-2**

**Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP19V58-POD
ISBN (Print-On-Demand):	978-1-7281-5390-2
ISBN (Online):	978-1-7281-5389-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Content

Paper ID	Paper Title	Page Number
8	Human Brain Tumor Detection Using CPW Fed UWB Vivaldi Antenna	1-6
12	Performance Analysis of a PCF SPR Based Highly Sensitive Biosensor	7-10
13	Topology Analysis of Protein-protein Interaction Network and Identification of Gene Ontology for Obstructive Sleep Apnea and Associated Diseases Using Bioinformatics Tools	11-14
14	Portable Real Time ECG Monitor and Disease Diagnostics	15-19
15	A Cost-Effective Driver Drowsiness Recognition System	20-23
16	Comparative Study Between Decision Tree, SVM and KNN to Predict Anaemic Condition	24-28
17	Design and Implementation of a Wearable System for Non-Invasive Glucose Level Monitoring	29-32
18	Emotional State Analysis Using Handheld Portable ECG Device	33-36
19	Real Time Sleep Apnea Event Detection with Deep Neural Network	37-41
20	A Modified Support Vector Machine with Hybrid Kernel Function for Diagnosis of Diseases	42-46
25	A Belief Rule Base Expert System for staging Non-Small Cell Lung Cancer under Uncertainty	47-52
27	Estimation of Blood Glucose from PPG signal Using Convolutional Neural Network	53-58
28	An Automated Therapy Chair for Patients having Chronic Obstructive Pulmonary Disease (COPD)	59-62
30	RHM: Designing a Customized Health Model for the Union of Ramjibon	63-67
31	Malaria Diagnosis with Dilated Convolutional Neural Network Based Image Analysis	68-72
32	Design of an Arrhythmia Detection System Using Wearable PPG Sensor	73-76
34	ALS Detection Based on T-Location Scale Statistical Modeling of the DWT Coefficients of EMG Signals	77-80
35	Sleep Stage Classification using EOG signals with reduced class imbalance effect	81-84
39	Design and Implementation of an EMG Controlled 3D Printed Prosthetic Arm	85-88
40	Design and Development of Navigation Guide for Visually Impaired People	89-92
41	ECG Heartbeat Classification: A Comparative Performance Analysis between One and Two Dimensional Convolutional Network	93-96
42	Surface EMG Based Basic Hand Movement Detection using Singular Value Decomposition	97-102
43	Real Time Detection of Roadside Speed Breakers and Obstacles upto Knee-level	103-106
44	Automated Brain Tumor Segmentation from MRI Data Based on Local Region Analysis	107-110