2023 1st International Conference on Innovations in High Speed Communication and Signal Processing (IHCSP 2023)

Bhopal, India 4-5 March 2023



IEEE Catalog Number: ISBN:

CFP23DH3-POD 979-8-3503-4596-4

Copyright © 2023 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:	CFP23DH3-POD
ISBN (Print-On-Demand):	979-8-3503-4596-4
ISBN (Online):	979-8-3503-4595-7

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



1st IEEE International Conference

on

Innovations in High-Speed Communication and Signal Processing (IEEE-IHCSP 2023)

P <u>g.No</u> .	Paper Title	Paper ID
1	Suspicious Activity Detection using Deep Learning Approach	IHCSP-008
7	Efficient Diffie Hellman Two Round Secret Key Agreement Protocol	IHCSP-009
11	Content Based Image Retrieval using State Vector Machine and Decision Tree	IHCSP-024
12	Establishment of an Effective Brain Tumor Classification System through Image Transformations and Optimization Techniques	IHCSP-027
17	Internet of Medical Things (IoTM) based Sustainable Architecture for Health Monitoring System	IHCSP-029
21	Investigation of Seismic Signal Processing for Detection and Classification of Moving Unarmoured Vehicles	IHCSP-032
25	An effective Identification of Flavor Complaint by adaptive analysis of Electroencephalogram (EEG) Signal	IHCSP-033
29	Effective Multi-Data-Set Kernel Culture System Development in Data Mining	IHCSP-035
33	An Effective Analysis of Secured Power Aware Routing Protocol for Power and Energy Fortifying in Wireless Sensor Networks"	IHCSP-037
38	Analyzing Encrypted Cloud Data with Multiple Keywords Productively For Factories	IHCSP-040
43	Realization of SWAP Gate using Electro-Optic Phenomenon based Mach-Zehnder Interferometer	IHCSP-044
47	Discrete and Continuous Time Chaos Based on True Random Number Generators	IHCSP-045
53	Design And Implementation of Pothole Detection & Instance Detection Based On A Unified Approach For Globally Roads	IHCSP-051
57	A Smart Tele-Healthcare System for Real-Time Health Monitoring and Remote Consultation	IHCSP-057
63	Face Recognition Based on Cascade Classifier Using Deep Learning	IHCSP-061
69	Content based Image Search Engine with Grey Wolf Optimized Neural Network	IHCSP-063
74	Design Issues and Challenges of Memristor Structured Gas Receptive System	IHCSP-074
81	High Isolation 2-element MIMO for WLAN/Sub-6GHz (n77, n78 and n79) 5G applications	IHCSP-079
87	Delineation of flooded Areas using a synergistic combination of optical and SAR Imagery	IHCSP-081
93	Deep Learning Based Emotion Classification using Mel Frequency Magnitude Coefficient	IHCSP-082
99	Land Use Land Cover Classification in Remote Sensing Using Machine Learning Techniques	IHCSP-084
105	The Current State of Software Engineering Employing Methods Derived from Artificial Intelligence and Outstanding Challenges	IHCSP-085
109	An Exploration of an Operational Multi-Data-Set Kernel Culture Scheme for Practice in Data Mining	IHCSP-088
113	Study into the Application of Electroencephalogram (EEG) Signal Analysis for the Diagnosis of Taste Disorder	IHCSP-089

TABLE OF CONTENT

Protocol Aimed at WSN122Sleep Disorder Detection through PSD-Based Short-Time Frequency Analysis of Electrocardiogram Signal126Analysis of PPG Signal Correlation with Cardiac and Respiratory Signals in Humans using Spectral Analysis Techniques130Constellation Founded Fuzzy and Bee Colony Optimization for Route Optimization in Mobile Wireless Sensor Network135Cluster Based Hidden Markov Model for Path Improvement in Mobile Wireless Sensor Network139Dynamic Route Selection in Mobile Wireless Sensor Network for Analysis of Cluster Grounded Energy Hop Calculation143An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	IHCSP-090 IHCSP-091 IHCSP-092 IHCSP-093 IHCSP-095
122Electrocardiogram Signal126Analysis of PPG Signal Correlation with Cardiac and Respiratory Signals in Humans using Spectral Analysis Techniques130Constellation Founded Fuzzy and Bee Colony Optimization for Route Optimization in Mobile Wireless Sensor Network135Cluster Based Hidden Markov Model for Path Improvement in Mobile Wireless Sensor Network139Dynamic Route Selection in Mobile Wireless Sensor Network for Analysis of Cluster Grounded Energy Hop Calculation143An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	IHCSP-092 IHCSP-093 IHCSP-094
120 Spectral Analysis Techniques 130 Constellation Founded Fuzzy and Bee Colony Optimization for Route Optimization in Mobile Wireless Sensor Network 135 Cluster Based Hidden Markov Model for Path Improvement in Mobile Wireless Sensor Network 139 Dynamic Route Selection in Mobile Wireless Sensor Network for Analysis of Cluster Grounded Energy Hop Calculation 143 An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	IHCSP-093 IHCSP-094
130 Mobile Wireless Sensor Network 135 Cluster Based Hidden Markov Model for Path Improvement in Mobile Wireless Sensor Network 139 Dynamic Route Selection in Mobile Wireless Sensor Network for Analysis of Cluster Grounded Energy Hop Calculation 143 An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	IHCSP-094
135 Network 139 Dynamic Route Selection in Mobile Wireless Sensor Network for Analysis of Cluster Grounded Energy Hop Calculation 143 An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	
139 Grounded Energy Hop Calculation 143 An Updated Gamma Filter Application for Pre-processing of EEG in Blind Folded Flavor Recognition	IHCSP-095
143 Recognition	
	IHCSP-096
148Multi-resolution wavelet investigation approach for abstraction of Electrocardiogram (ECG) characteristic features	IHCSP-097
153 Electrocardiogram (ECG) outline exploration and classification through the Range of CWT (Cross Wavelet Transform)	IHCSP-098
158Heart Rate Variability analysis from Electrocardiogram (ECG) and Photoplethysmogram (PPG) Signals by Using Soft Computing Technique	IHCSP-099
164 Research, Development and Analysis for Solar Power Gathering Instruments	IHCSP-100
168 Heart Rate Variability Investigation of ECG Signal by Means of Windows and Wavelet Transform	IHCSP-101
173 Neuro Fuzzy Approach Solicitation for Analysis of Heart Rate Signals	IHCSP-102
178 An efficient and clever computer-aided diagnosis system design explicitly for mammography examination	IHCSP-103
183Optimal Feature Subset Selection for Pattern Classification and Recognition using Spectral Entropy As a Complexity Measure from Alcohol and Sleep EEG Data	IHCSP-104
188Multichannel EEG Pattern Acknowledgment Feature Assortment using t-test Ranking and Principal Component Analysis	IHCSP-105
194Analysing the Efficiency of Mutual Information (MI) and a Genetic Algorithm (GA) for Selecting Spectral Entropy Features from an EEG Signal	IHCSP-106
199 Removal of Artifacts in EEG Signals Using Sign Based LMS Adaptive Filtering Techniques	IHCSP-107
204 Recognition of Normalization Grounded Adaptive Filtering Methods for Noise Cancellation in EEG Signal Recordings	IHCSP-108
208 Block enactment of adaptive filters to eradicate noise-grade constituents from recordings of EEG signals.	IHCSP-109
212 An Effective Recurrent Neural Network for Image Denoising with Long Short-Term Memory founded Batch Normalization	IHCSP-110
216 Medical Image Denoising expending A Hybrid Recurrent Neural Network Through Support Vector Machine	IHCSP-111
220 Transductive Support Vector Machines (TSVM) with Hybrid Recurrent Neural Networks for Medical Image Filtering	IHCSP-112
224 Improved Artifact mitigation from ECG Signal for effective Ischemia Detection and Classification	IHCSP-113
	IHCSP-114

232	An Electronic Analytical System for Classification of Kidney Abnormalities Aimed at Identifying Abnormalities in Ultrasound Pictures of the Kidney	IHCSP-115
236	A System for Automatic Recognition of Hand Gestures Based on Temporal Features and Feed Forward Neural Network by using Electromyographic Data	IHCSP-116
240	H-plane substrate integrated waveguide horn radiator for 5G application	IHCSP-117
246	Effective Delineation of ECG Signals for Operative Neural Disease Recognition and Classification	IHCSP-118
250	Medical Image Fusion Workbench Supporting Multiple Modalities with Feature-Level Transforms	IHCSP-122
254	Recognition of FEs using a Novel Detection Method based on Convolutional Neural Networks	IHCSP-123
259	Effective Elimination of Artifacts from Electrocardiogram Signal	IHCSP-126
263	W-net Plus: DNN for Spatial Saliency Prediction in Videos	IHCSP-127
268	SEF-VSOD: A Static Ensemble Framework for Video Saliency Using Modified Doubly U- Net	IHCSP-131
273	JARVIS - AI Voice Assistant	IHCSP-134
281	4X4 Rectangular Shape Microstrip Patch Antenna Array with DGS for 5G Wi-Fi Communication Application	IHCSP-135
286	138 Identification of Epilepsy in the EEG Signals Based on Prediction Error Energy	IHCSP-138
290	Concentrated Solar Power Plant with Central Receiver System for Rajshahi and it's Possibility in Bangladesh	IHCSP-140
295	Bit Exchange: A cryptocurrency exchange system based on block chain	IHCSP-141
300	Techno-Economic Optimization of Grid-Integrated Hybrid Storage System using GA	IHCSP-142
306	Economic Feasibility Analysis of Grid Connected Micro-grid using SSO Algorithm	IHCSP-143
312	Comparative Error Rate Performance analysis of Quasi Cyclic LDPC Codes for 5G radio channel	IHCSP-149
316	An Experimental Testbed for RSSI-based indoor localization with LoRa and A Survey on Deep Learning Approaches for Real-Time License Plate, Vehicle Type and Face Recognition	IHCSP-150
322	Hardware Implementation of Two Way Sign Language Conversion Systems	IHCSP-153
327	Smart Model for Career Guidance using hybrid deep learning technique	IHCSP-158
332	Improving the Quality of Real-Time Monitoring of Foetal ECG for Effective Extraction of Information	IHCSP-161
342	Dysarthric Speech Enhancement using Hybrid model involving Dynamic Time Warping and Feed Forward Neural Network	IHCSP-167
336	An Automated Diagnosis of Diabetic Macular Edema Grading using Transfer Learning	IHCSP-166
347	Fundus Image Enhancement using Hybrid Deep Learning Approaches	IHCSP-168
353	An introduction to hybrid electric vehicle drive and its controlling using optimized control algorithm.	IHCSP-170
359	Photonic Crystal Sensor for the detection of red blood cells clotting in Blood	IHCSP-171
363	K-means Clustering & Wavelet Based Texture Feature Set for Brain Image Classification	IHCSP-173
369	Advance Model for Ramsonware Attackings Data Classification and Prediction Using Al	IHCSP-174
374	Performance Evaluation of Deep Learning Models for Surface Crack Detection	IHCSP-177
381	Framework for Load Balancing Using Multi Resource Scheduling With Minimum Time Consumption	IHCSP-179
386	The application of Hybrid optimization for FIR filter design	IHCSP-180
392	IOT-based Accidental Detection System (ADS) using Raspberry Pi	IHCSP-181
398	Performance analysis of High-speed MIMO FSO System in various data formats	IHCSP-182

402	Wavelet Transform and Cascaded Feed Forward Neural Network analysis of Electromyographic Data for Involuntary Detection of Hand Gesticulation	IHCSP-188
407	Wideband Patch Antenna for Stable Radiation Pattern Generation	IHCSP-189
411	A Reliable Model System Design to Predict Elderly People Falling Based on Drowsiness and Sleep Patterns	IHCSP-191
415	Design A Small Size Circular-Polarized Microstrip Antenna for RFID Applications	IHCSP-192
418	Pre-processing investigation for Brain Abnormality Detection and Analysis through MRI of Brain	IHCSP-193
423	Non-Invasive Foetal Electrocardiogram (ECG) Extraction using Abdominal Electrocardiogram of the Mother	IHCSP-196
427	Brain Abnormality Detection and Analysis by using MRI of Brain through Multiple Sclerosis Lesions Detection and Analysis	IHCSP-198
432	Homomorphic Encryption and Prim's Process for Multi-Keyword Exploration in Encrypted Cloud Data for Trades	IHCSP-200
437	Artificial Neural Network Based effective detection of Breast cancer by using mammogram data	IHCSP-201
441	Dust and Cleaning Effect on 50 kW Rooftop Solar Photovoltaic Power Plant	IHCSP-202
446	An Effective classification of DDoS Cloud Based Attack Through Tree founded Classifiers	IHCSP-206
450	Evaluation of Machine-Learned Price Prediction Models for Block-chain Technology	IHCSP-207
454	A Computer-Aided Detection (CAD) System for the Recognition of Prostate Cancer Grounded on Classification	IHCSP-209
459	An Effective Recognition of Pointer Movement By means of Hilbert Huang Transform and Deep Neural Network algorithm	IHCSP-210
463	Design and Optimization of an OFDM Transmission System for Optical Fiber Using Various Network Architectures	IHCSP-212
471	Deep Transfer Learning with Multi-Level Features Extraction Approach for Breast Cancer Classification	IHCSP-214
475	A Survey on Deep Learning Approaches for Real-Time License Plate, Vehicle Type and Face Recognition	IHCSP-215
483	Edge Detection and Color Mapping Based Diabetic Retinopathy from Fundus Images	IHCSP-216
488	Combining Extreme Learning Machine through Random projections for dimensional information Taxonomy and Assembling	IHCSP-218
492	Detection of Tuberculosis Bacilli using Deep Learning	IHCSP-219
497	Detection and Classification of Lung Cancer CT Images Using Mask R-CNN Based Generated Mask Method	IHCSP-220
502	Enhanced Image Compression Using Fractals and Principle Component Analysis	IHCSP-221
508	Automated Lung Cancer Detection using Prewitt Gradient Kernel & SVM from CT-Lung Images	IHCSP-222
514	Feature Extraction Based Domain Kickout Method for Fractal Image Compression	IHCSP-223
519	Automatic Irrigation System	IHCSP-224
523	Breast Cancerous Nuclei Digital Histogram Segmentation	IHCSP-225
527	Temperature Control Based Smart Fan	IHCSP-226
531	Multi-Keyword Graded Exploration in Encrypted Cloud Data for Industries Based on Rc4+ and Forest	IHCSP-227
536	An Effective Analysis of Proficient Two Level Security Contraptions for Loading Data in Cloud	IHCSP-228
541	Design and Analysis of Low BER with High Speed 16 Channel WDM Communication Network for 5G and beyond	IHCSP-229
		1