

2017 2nd International Conference on Man and Machine Interfacing (MAMI 2017)

**Bhubaneswar, India
21-23 December 2017**



**IEEE Catalog Number: CFP17E36-POD
ISBN: 978-1-5386-2990-1**

**Copyright © 2017 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:	CFP17E36-POD
ISBN (Print-On-Demand):	978-1-5386-2990-1
ISBN (Online):	978-1-5386-2989-5

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 CONTENTS

APPLICATION OF GRAVITATIONAL SEARCH ALGORITHM IN OPTIMIZATION OF MICROSTRIP ANTENNA AT 5 GHZ	1
<i>Amiya B. Sahoo ; B. B. Mangaraj ; T. Shailendra Nag ; Kanchan Soni</i>	
AN AUTOMATED TOOL FOR COLLECTION OF CODE ATTRIBUTES FOR CROSS PROJECT DEFECT PREDICTION.....	5
<i>Ruchika Malhotra ; Bhavyaa Bansal ; Chitranshi Jain ; Ekta Punia</i>	
VIDEO SHOT BOUNDARY DETECTION BASED ON HILBERT AND WAVELET TRANSFORM	11
<i>T. Kar ; P. Kanungo</i>	
OPTIMAL PLANNING OF CHARGING STATION FOR EVS WITH PV-BES UNIT IN DISTRIBUTION SYSTEM USING WOA.....	17
<i>Kumari Kasturi ; Manas Ranjan Nayak</i>	
TECHNO-ECONOMIC ANALYSIS OF CONDUCTOR & CAPACITOR ALLOCATION IN RDS USING ICSA.....	23
<i>Kumari Kasturi ; Manas Ranjan Nayak</i>	
ENERGY EFFICIENCY IN DENSELY DISTRIBUTED WIRELESS SENSOR NETWORK USING FUZZY K-MEAN	29
<i>Devika ; Monalisa Nayak ; Dillip Dash ; Kodanda Dhar Sa</i>	
MULTIPLE FACE-COMPONENT ANALYSIS: A UNIFIED APPROACH TOWARDS FACIAL RECOGNITION TASKS.....	35
<i>Sairaam Venkatraman ; S. Balasubramanian ; Darshan Gera</i>	
ON SEGMENTATION OF WORDS FROM ONLINE HANDWRITTEN GURMUKHI SENTENCES	41
<i>Devesh Dahake ; R. K. Sharma ; Harjeet Singh</i>	
DEVELOPMENT OF DOUBLE STRAINED SI CHANNEL FOR HETEROSTRUCTURE ON INSULATOR MOSFET.....	47
<i>Lalthanpuii Khiangte ; Rudra Sankar Dhar</i>	
MODELLING AND SIMULATION OF IP OVER INFINIBAND WITH OMNET++	50
<i>Utkal Sinha ; Ratnakar Dash ; Abhilash Thottakath Chakkan ; Nandish Jayaram Kopri</i>	
ROBUST ESTIMATION OF IIR SYSTEM'S PARAMETER USING CRAZINESS BASED PARTICLE SWARM OPTIMIZATION	56
<i>Asutosh Patnaik ; Meenakshi Panda ; Meera Dash ; T. Panigrahi ; R. Sharma</i>	
MULTI-PARAMETER MODIFICATION BASED COLOR IMAGE VISUALITY ENHANCEMENT	61
<i>Manas Sarkar ; Saorabh Kumar Mondal ; Priyanka Rakshit Sarkar</i>	
CRAZY FIREFLY ALGORITHM FOR FUNCTION OPTIMIZATION	67
<i>Shubhendu Kumar Sarangi ; Rutuparna Panda ; Archana Sarangi</i>	
ADAPTIVE FUZZY LOCAL BINARY PATTERN FOR TEXTURE CLASSIFICATION	72
<i>Gandham Girish ; Jatindra Kumar Dash</i>	
R-PEAK DETECTION USING EFFICIENT TECHNIQUE FOR TACHYCARDIA DETECTION.....	77
<i>Mohan Debarchan Mohanty ; Bibhuprasad Mohanty ; Mihir N. Mohanty</i>	
A FUZZY CLUSTERING ALGORITHM WITH LOCAL CONTEXTUAL INFORMATION AND GAUSSIAN FUNCTION FOR SIMULTANEOUS BRAIN MR IMAGE SEGMENTATION AND INTENSITY INHOMOGENEITY ESTIMATION	82
<i>Nabanita Mahata ; Sayan Kahali ; Jamuna Kanta Sing ; Sudip Kumar Adhikari</i>	
PERFORMANCE ANALYSIS OF CONCOMITANT SYNCHRONIZATION ALGORITHMS FOR OFDM AND NON-CONTIGUOUS OFDM SYSTEMS.....	88
<i>Minati Panda ; Soumya Mishra</i>	
DEVELOPMENT OF DOUBLE STRAINED SI CHANNEL FOR HETEROSTRUCTURE ON INSULATOR MOSFET.....	94
<i>Lalthanpuii Khiangte ; Rudra Sankar Dhar</i>	
AN EFFECTIVE AND AFFORDABLE TECHNIQUE FOR HUMAN MOTION CAPTURING AND TELEOPERATION OF A HUMANOID ROBOT USING AN EXOSKELETON.....	97
<i>Anoop Kumar Sinha ; Sujit Kumar Sahu ; Rakesh Kumar Bijarniya ; Karali Patra</i>	
SYNYGIUM CUMINI PLANT PHOTOSYNTHETIC PIGMENT DETECTION FROM HYPERSPECTRAL DATASETS USING SPECTRAL INDICES	103
<i>Amarsinh B. Varpe ; Rupali R. Surase ; Amol D. Vibhute ; Sandeep V. Gaikwad ; Yogesh D. Rajendra ; K. V. Kale ; S. C. Mehrotra</i>	

A METAHEURISTIC BAT INSPIRED TECHNIQUE FOR CELLULAR NETWORK OPTIMIZATION	109
<i>Smita Parija ; P K Sahu</i>	
INVESTIGATION OF LOW TEMPERATURE PERFORMANCE IN HETEROSTRUCTURE STRAINED-SI N-MOSFET.....	115
<i>Tara Prasanna Dash ; Sanghamitra Das ; Diana Pradhan ; Suprava Dey</i>	
AN EVALUATION OF COGNITIVE AND NEURAL CORRELATES FOR INDIRECT VISION DRIVING AND ROVER TELEOPERATION	121
<i>Raghav Bhat ; Vishal Pandey ; Akash K Rao ; Sushil Chandra</i>	
MATHEMATICAL MODEL FOR TEMPERATURE DISTRIBUTION IN CYLINDRICAL HUMAN BODY	126
<i>Kabita Luitel</i>	
ADVANCED PROTEIN CODING REGION PREDICTION APPLYING ROBUST SVD ALGORITHM	131
<i>Lopamudra Das ; J. K. Das ; Sarita Nanda</i>	
ASSESSMENT OF SOIL ORGANIC MATTER THROUGH HYPERSPECTRAL REMOTE SENSING DATA (VNIR SPECTROSCOPY) USING PLSR METHOD	137
<i>Amol D. Vibhute ; Rajesh K. Dhumal ; Ajay Nagne ; Rupali Surase ; Amarsinh Varpe ; Sandeep Gaikwad ; Karbhari V. Kale ; Suresh C. Mehrotra</i>	
A NOVEL DNA MAPPING SCHEME FOR IMPROVED EXON PREDICTION USING DIGITAL FILTERS	143
<i>Lopamudra Das ; Sarita Nanda ; J. K. Das</i>	
PAPER PIANO — SHADOW ANALYSIS BASED TOUCH INTERACTION	149
<i>Boga Vishal ; K Deepak Lawrence</i>	
VALLEY BASED MULTICLASS THRESHOLDING FOR COLOR IMAGE SEGMENTATION	155
<i>Tapaswini Pattnaik ; P. Kanungo</i>	
COMPARATIVE ANALYSIS OF ENERGY EFFICIENT MAC PROTOCOL IN HETEROGENEOUS SENSOR NETWORK UNDER DYNAMIC SCENARIO	161
<i>Seli Mohapatra ; Rakesh Kumar Mohapatra</i>	
A MODERN SCREENING APPROACH FOR DETECTION OF DIABETIC RETINOPATHY	166
<i>S. D. Shirbahadurkar ; V. M. Mane ; D. V. Jadhav</i>	
A SIMPLE AND FAST AUTOMATIC FACE COLOUR IDENTIFICATION FOR REDUCING THE SEARCH SPACE	172
<i>Rajeswari ; P. Kanungo ; B. P. Mohanty ; K. S. Mohanty</i>	
STUDY OF THE EFFECT OF A PATRIOTIC SONG ON AUTONOMIC NERVOUS SYSTEM AND HEART USING ECG SIGNAL ANALYSIS	178
<i>Shikshya Nayak ; Sarmila Garnaik ; Suraj K Nayak ; Debasisha Panigrahi ; Kunal Pal</i>	
AN IMPROVED IMAGE ENCRYPTION TECHNIQUE USING DIFFUSION METHOD ASSOCIATED WITH HILL CIPHER AND CHAOTIC LOGISTIC MAP	183
<i>Devika ; Monalisa Nayak ; Dillip Dash ; Kodanda Dhar Sa</i>	
EVALUATION OF SOIL CONDITIONS USING SPECTRAL INDICES FROM HYPERSPECTRAL DATASETS	189
<i>Amol D. Vibhute ; Rajesh Dhumal ; Ajay Nagne ; Rupali Surase ; Amarsinh Varpe ; Sandeep Gaikwad ; Karbhari V. Kale ; Suresh C. Mehrotra</i>	
NEIGHBORHOOD BASED CODEBOOK MODEL FOR MOVING OBJECT SEGMENTATION.....	195
<i>P. Kanungo ; A. Narayan ; P. K. Sahoo ; S. Mishra</i>	
TOWARDS A SOFTWARE ORIENTED APPROACH TO CONTROL DISADVANTAGED NETWORKS.....	201
<i>M V Radhika ; Narayan Panigrahi</i>	
Author Index	