

2017 Conference on Emerging Devices and Smart Systems (ICEDSS 2017)

**Mallasamudram, Tiruchengode, India
3-4 March 2017**



**IEEE Catalog Number: CFP17D81-POD
ISBN: 978-1-5090-5556-2**

**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:	CFP17D81-POD
ISBN (Print-On-Demand):	978-1-5090-5556-2
ISBN (Online):	978-1-5090-5555-5

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

TOOL FLANK WEARS ESTIMATION BY SIMPLIFIED SVD ON EMITTED SOUND SIGNALS	1
<i>K. Prakash, A. Samraj</i>	
NOTIFYING AND INSPECTING VEHICLE EMISSION AND TEMPERATURE OF VEHICLE ENGINE	6
<i>S. Kamalakar, M. Vanjale</i>	
E-SHAPED SLOT ANTENNA BACKED WITH SUBSTRATE INTEGRATED WAVEGUIDE CAVITY FOR 60GHZ APPLICATIONS	10
<i>N. Kumar, T. Shanmuganantham</i>	
A STAIRED PLUS SHAPED COPLANAR WAVEGUIDE (CPW)-FED WIDE BAND ANTENNA FOR MULTIPLE WIRELESS APPLICATIONS	14
<i>R. Gupta, T. Shanmuganantham, R. Kiruthika</i>	
REFLEXIVE SPOTTING OF DEEP VEIN THROMBOSIS IN THE FEMORAL NERVE BASED ON MULTIPLE FEATURE EXTRACTION AND CLASSIFICATION TECHNIQUES	20
<i>A. Jenitta, A. Amala, R. Ravindran</i>	
IDENTIFICATION OF WEED GROWTH AND INTRUSION IN PLANT BEDS BY MODIFIED SINGULAR VALUE DECOMPOSITION OF AREAL SENSORY IMAGES.....	26
<i>K. Ramesh, A. Samraj</i>	
INTIMA-MEDIA SEGMENTATION USING MARR-HILDRETH METHOD AND ITS IMPLEMENTATION ON UNIFIED TECHNOLOGY LEARNING PLATFORM.....	32
<i>R. Hemalatha, N. Santhiyakumari, M. Madheswaran, S. Suresh</i>	
ELECTRICAL AND UV DETECTION PROPERTIES OF ZNO THIN FILM BASED SCHOTTKY CONTACTS DEPOSITED BY RF MAGNETRON SPUTTERING	37
<i>T. Varma, Periasamy, D. Boolchandani</i>	
MEDICINE DISPENSING MACHINE USING RASPBERRY PI AND ARDUINO CONTROLLER.....	44
<i>V. Tank, S. Warrior, N. Jakhiya</i>	
COGNITIVE TASK DIFFICULTY ANALYSIS USING EEG AND DATA MINING	52
<i>A. Duraisingam, R. Palaniappan, S. Andrews</i>	
A SURVEY ON EVOLUTIONARY TECHNIQUES FOR FEATURE SELECTION.....	58
<i>A. Abdullah, C. Ramya, V. Priyadharsini, C. Reshma, S. Selvakumar</i>	
NOBLE METAL SCHOTTKY CONTACTS ON NANOCRYSTALLINE RF SPUTTERED ZNO THIN FILM	63
<i>L. Rajan, C. Periasamy, V. Sahula</i>	
COGNITIVE VISION BASED MINIMIZATION OF CORRESPONDENCE ERROR BY SHEAR ANALYSIS FOR OUTDOOR ROBOT MAPS IN NAVIGATION	68
<i>N. Nithya, P. Vinothkumar, L. Kunjachen, S. Parveen</i>	
THE USE OF KRILL HERD BASED OPTIMIZATION TO SOLVE COMPLEX ECONOMIC LOAD DISPATCH PROBLEMS.....	72
<i>S. Roy, K. Bhattacharjee</i>	
STUDY OF SALEM CITY RESOURCE MANAGEMENT USING K-MEANS CLUSTERING	79
<i>K. Nithya, R. Shanmugasundaram, N. Santhiyakumari</i>	
EFFORT ESTIMATION OF SOFTWARE PROJECTS WITH OPTIMIZED COEFFICIENTS USING SOFT COMPUTING TECHNIQUE	84
<i>D. Sivakumar, C. Sureshkumar</i>	
A DETAILED SURVEY ON AUTO IRRIGATION SYSTEM.....	90
<i>A. Joshi, L. Ali</i>	
EXTRACTION OF S PARAMETER FROM EEHEMT NONLINEAR MODEL OF HJFET FOR X BAND.....	96
<i>B. Gopal, V. Rajamani</i>	
DYNAMIC CLUSTERED HIERARCHICAL REAL TIME TASK ASSIGNMENT & RESOURCE MANAGEMENT FOR IOT BASED SMART HUMAN ORGAN TRANSPLANTATION SYSTEM	103
<i>G. Talmale, U. Shrawankar</i>	
EFFECTIVE DEMAND SIDE MANAGEMENT (DSM) STRATEGIES FOR THE DEREGULATED MARKET ENVIRONMENTS	110
<i>R. Debnath, D. Kumar, D. Mohanta</i>	
PHOTOVOLTAIC CHARACTERIZATION OF GRAPHENE-GAN SCHOTTKY JUNCTION IN MESFET.....	116
<i>J. Gaitonde, R. Lohani</i>	

DESIGN OF RADIX 2 BUTTERFLY STRUCTURE USING VEDIC MULTIPLIER AND CLA ON XILINX.....	120
<i>A. Singh, A. Nandi</i>	
OUTAGE ANALYSIS OF PROPOSED HYBRID SCHEME FOR COGNITIVE RADIO NETWORKS.....	124
<i>A. Sharma, M. Srivastava</i>	
AN IMPROVISED GRID RESOURCE ALLOCATION AND CLASSIFICATION THROUGH REGRESSION.....	129
<i>A. Krishnakumar, T. Kumaran, M. Balamurugan</i>	
ANALYSIS OF DMTL PHASE SHIFTER USING RF MEMS POWER SENSOR	133
<i>S. Kanthamani, N. Sindhuja, R. Priyanka</i>	
FINITE ELEMENT METHOD SIMULATION OF GRAPHENE NANO-ELECTROMECHANICAL CONTACT SWITCHES WITH SURFACE TRENCHES.....	137
<i>K. Jothiramalingam, M. Manoharan, M. Schmidt, W. Wang, H. Mizuta</i>	
CIRCULAR POLARIZED MSA WITH CAPACITIVE FED AND SHORTING PIN.....	142
<i>T. Biradar, K. Biradar, K. Reddy</i>	
ANALYTICAL THRESHOLD VOLTAGE MODEL OF GATE ALL AROUND TRIPLE METAL TUNNEL FET.....	146
<i>N. Bagga, S. Dasgupta</i>	
RECENT TREND OF FINFET DEVICES AND ITS CHALLENGES: A REVIEW	150
<i>R. Pal, S. Sharma, S. Dasgupta</i>	
A COMPARATIVE STUDY OF DESPECKLING FILTERS FOR ENHANCEMENT OF MEDICAL IMAGES.....	155
<i>P. Nageswari, S. Rajan</i>	
POWER REDUCTION IN OQAM TRANSMITTER ARCHITECTURE USING MODIFIED IFFT	161
<i>M. Madheswaran, C. Abraham, M. Sharma</i>	
FPGA DESIGN OF EFFICIENT KIDNEY IMAGE CLASSIFICATION USING ALGEBRIC HISTOGRAM FEATURE MODEL AND SPARSE DEEP NEURAL NETWORK (SDNN) TECHNIQUES.....	165
<i>R. Vinoth, K. Bommannaraja</i>	
COMPARISON OF DIFFERENT IMAGE PREPROCESSING METHODS USED FOR RETINAL FUNDUS IMAGES.....	175
<i>C. Swathi, B. Anoop, D. Sahaya, S. Perumal</i>	
FABRICATION AND CHARACTERIZATION OF THIN-FILM HETEROJUNCTION DIODES FOR SMART SYSTEMS.....	180
<i>L. Agarwal, B. Singh, S. Tripathi, P. Chakrabarti</i>	
MAMMOGRAM IMAGE DENOISING FILTERS: A COMPARATIVE STUDY	184
<i>J. Mariya, J. Grace, D. Sahaya</i>	
BEHAVIOR MODIFICATION OF PID CONTROLLER FOR AVR SYSTEM USING PARTICLE SWARM OPTIMIZATION.....	190
<i>K. Elumalai, S. Sumathi</i>	
AUTOMATIC CONTROL LOOP TUNING OF PMAC SERVOMOTOR DRIVES USING PID CONTROLLER.....	196
<i>A. Arokiasamy, S. Sumathi</i>	
SECURE & OPTIMIZE HADOOP SCHEDULING USING AMF-H3 FRAMEWORK WITH BAT ALGORITHM	205
<i>S. Kaur, R. Gangwar, G. Kahlon</i>	
POWERLINE FSK COMMUNICATION USING SIGNAL WIRE TECHNIQUE.....	210
<i>P. Yadav, L. Saini</i>	
A NOVEL TECHNIQUE OF MOTIF DISCOVERY FOR MEDICAL BIG DATA USING HADOOP.....	214
<i>J. Sivaranjani, A. Madheswari</i>	
ENHANCEMENT OF PROPORTIONAL-INTEGRAL-DERIVATIVE CONTROLLER FOR DC-DC CONVERTER USING SOFT COMPUTING TECHNIQUES.....	218
<i>A. Kumar, V. Agalya</i>	
MODAL ANALYSIS OF FEMUR BONE USING FINITE ELEMENT METHOD FOR HEALTHCARE SYSTEM.....	224
<i>R. Vijayakumar, M. Madheswaran</i>	
MODELING AND SIMULATION OF CLOSED LOOP SPEED CONTROL FOR BLDC MOTOR.....	229
<i>P. Suganthi, S. Nagapavithra, S. Umamaheswari</i>	
A COMPARISON ANALYSIS OF DSDV AND AODV ROUTING PROTOCOLS IN MOBILE AD HOC NETWORKS.....	234
<i>A. Sureshkumar, V. Ellappan, K. Manivel</i>	

PREPROCESSING FILTERS FOR MAMMOGRAM IMAGES: A REVIEW	238
<i>K. Shema, G. Jayesh, D. Dhas</i>	
LOW POWER VLSI CIRCUITS DESIGN STRATEGIES AND METHODOLOGIES: A LITERATURE REVIEW	245
<i>S. Varadharajan, V. Nallasamy</i>	
IMPLEMENTATION OF DWM FOR MEDICAL IMAGES USING IWT AND QR CODE AS A WATERMARK	252
<i>K. Kavitha, B. Shan</i>	
TWO METHODOLOGIES FOR IDENTIFICATION OF STAGES AND DIFFERENT TYPES OF MELANOMA DETECTION	257
<i>M. Reshma, B. Shan</i>	
IOT AGRICULTURE TO IMPROVE FOOD AND FARMING TECHNOLOGY	260
<i>S. Jaiganesh, K. Gunaseelan, V. Ellappan</i>	
A STUDY ON BIOMETRIC AND MULTI-MODAL BIOMETRIC SYSTEM MODULES, APPLICATIONS, TECHNIQUES AND CHALLENGES	267
<i>R. Devi, P. Sujatha</i>	
IDENTIFYING A PARTICULAR ZONE WITH PRIOR INFORMATION USING WIRELESS	272
<i>B. Saraladevi, S. Sedhumadhavan</i>	
A NEW APPROACH OF TWO TIER IMAGE FEATURE VECTOR MATCHING TECHNIQUE USING AN UNSUPERVISED CLUSTERING TECHNIQUE.....	279
<i>M. Madheswaran, S. Kumar</i>	
FUZZY BASED POWER FACTOR CORRECTION FOR BLDC MOTOR USING HYBRID INVERTER.....	286
<i>S. Mahendran, S. Nagapavithra, S. Umamaheswari</i>	
Author Index	