

2015 Online International Conference on Green Engineering and Technologies (IC-GET 2015)

**Coimbatore, India
27 November 2015**



**IEEE Catalog Number: CFP15E65-POD
ISBN: 978-1-4673-9782-7**

**Copyright © 2015 by the Institute of Electrical and Electronic 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 publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP15E65-POD
ISBN (Print-On-Demand):	978-1-4673-9782-7
ISBN (Online):	978-1-4673-9781-0

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

S.NO	PAPER ID	TITLE
1	OIC120	VLSI IMPLEMENTATION OF FAST CONVOLUTION....1
2	OIC07	PERFORMANCE ANALYSIS OF FORGERY DETECTION OF JPEG IMAGE COMPRESSION....6
3	OIC14	A NOVEL APPROACH FOR HANDLING SENSITIVE DATA WITH DEDUPLICATION METHOD IN HYBRID CLOUD....17
4	OIC15	EFFICIENT ONLINE SOLAR ENERGY MONITORING AND ELECTRICITY SHARING IN HOME USING CLOUD SYSTEM....23
5	OIC18	INTERNET OF THINGS: HOSPICE APPLIANCES MONITORING AND CONTROL SYSTEM....27
6	OIC21	DESIGN OF LOW POWER DLL WITH TDC FOR JITTER SUPPRESSION....33
7	OIC26	SCADA SYSTEM FOR TELECOM POWER MANAGEMENT....39
8	OIC28	AN ULTRA FAST ON-CHIP BIST OF TRANSMITTER I/Q MISMATCH AND NON-LINEARITY USING ENVELOPE DETECTOR....43
9	OIC46	A CUTTING EDGE QUALITY MANAGEMENT SYSTEM TO OPTIMIZE QUALITY AND TO EN-SURE COMPLIANCE IN LIFE SCIENCES AUTOMATION....49
10	OIC70	ACTIVE COMPOSITION OF WEB SERVICES BASED ON QUALITY OF SERVICE....55
11	OIC71	VHDL IMPLEMENTATION OF MIMO BASED FSK FOR RECONFIGURABLE APPLICATIONS....61
12	OIC74	MONOCULAR VISION BASED AUTONOMOUS INDOOR MOBILE SERVICE ROBOT....64
13	OIC99	AN EFFICIENT LOW POWER NOC ROUTER ARCHITECTURE DESIGN....69
14	OIC108	PERFORMANCE CALCULATION AND PROBABILITY LIFECYCLE PRICE INVESTIGATION OF STANDALONE PHOTOVOLTAIC POWER SUPPLY FOR A RESIDENTIAL APPLICATIONS....77
15	OIC109	HARDWARE ACCELERATED STEREO IMAGING FOR VISUAL SERVOING....83
16	OIC112	RENEWABLE ENERGY SOURCEPIEZO ELECTRIC HARVESTERS IN CAR TYRES....87

Table of Content

17	OIC113	REAL TIME UNUSUAL EVENT DETECTION USING VIDEO SURVEILLANCE SYSTEM FOR ENHANCING SECURITY....92
18	OIC114	PERFORMANCE ANALYSIS OF ADMA ON BUS BASED SOC-SURVEY....96
19	OIC118	IMPLEMENTATION OF CLOUD SERVER FOR REAL TIME DATA STORAGE USING RASPBERRY PI....100
20	OIC02	MICRO DIVERSITY MIMO SYSTEM WITH MMSE AND ZF RECEIVER....104
21	OIC125	ENHANCED CONTROL STRATEGY FOR LAB SCALE FERMENTATION PROCESS OF ACTINOMYCETES SP. AND ITS ANTIBACTERIAL ACTIVITY....110
22	OIC127	FACE DETECTION SYSTEM USING FPGA....115
23	OIC128	IMPLEMENTATION OF RADIX-4 BUTTERFLY STRUCTURE TO PREVENT ARITHMETIC OVERFLOW....119
24	OIC129	ENERGY CONSERVATION USING AUTOMATIC LIGHTING SYSTEM USING FPGA....124
25	OIC130	FPGA IMPLEMENTATION OF UNIVERSAL ASYNCHRONOUS TRANSMITTER AND RECEIVER....127
26	OIC131	FUSED FLOATING-POINT ADD AND SUBTRACT UNIT....130
27	OIC132	FPGA IMPLEMENTATION OF EDGE DETECTION USING CANNY ALGORITHM....135
28	OIC134	ONLINE IDENTIFICATION USING INTERNAL MODEL CONTROL....139
29	OIC137	ENHANCEMENT OF POWER QUALITY ON GRID CONNECTED DUAL VOLTAGE SOURCE INVERTER....145
30	OIC140	SYMMETRICAL FAULT DETECTION OF DISTANCE RELAY TO PREVENT CASCADE TRIPPING DURING POWER SWING....151
31	OIC144	HIGH POWER FACTOR INTEGRATED BUCK-BOOST FLYBACK CONVERTER DRIVING MULTIPLE OUTPUTS....157
32	OIC145	FADING MITIGATION TECHNIQUE FOR MIMO IN FREE SPACE OPTICAL SYSTEM....162
33	OIC146	A RECONFIGURABLE COPROCESSOR UNITS WITH REDUNDANT RADIX-4 ARITHMETIC....168

Table of Content

34	OIC148	FPGA IMPLEMENTATION OF FFT BLOCKS FOR OFDM....172
35	OIC153	HIGH VOLTAGE GAIN DC-DC CONVERTER USING PV MODULE AND MPPT TECHNIQUE....176
36	OIC157	THE EVOLUTION OF THE ETHERNET....181
37	OIC159	ADVANCED VEHICLE OVER SPEED DETECTION AND BILLING SYSTEM (AVODABS)....188
38	OIC166	RESIDUE NUMBER SYSTEM IN THE VLSI ARCHITECTURE FOR IMAGE PROCESSING ALGORITHMS -A REVIEW....194
39	OIC167	FAULT DIRECTION DETECTION AND FAULT LOCATION IDENTIFICATION IN TRANSMISSION LINES USING TRAVELING WAVES....199
40	OIC168	SINE AND COSINE GENERATOR USING CORDIC ALGORITHM IMPLEMENTED IN ASIC....205
41	OIC175	LUNG AIR VOLUME MEASUREMENT FROM X- RAY IMAGES USING DSA TECHNIQUE....208
42	OIC178	HOME AUTOMATION THROUGH FPGA CONTROLLER....214
43	OIC182	KNOWLEDGE DISCOVERY ON EXTRACTED OUTLOOK PST FILES AND EMAILS....218
44	OIC184	ONLINE ESTIMATION OF PULP MIXING IN PAPER INDUSTRIES....223
45	OIC188	STUDY OF APPROXIMATE COMPRESSORS FOR MULTIPLICATION USING FPGA....229
46	OIC189	DESIGN AND IMPLEMENTATION OF 16X16 MODIFIED BOOTH MULTIPLIER....233
47	OIC190	IMAGE EDGE DETECTION IN FPGA....238
48	OIC191	VERILOG IMPLEMENTATION OF FULLY PIPELINED AND MULTIPLIERLESS 2D DCT/IDCT JPEG ARCHITECTURE....242
49	OIC192	IMPLEMENTATION OF BLAKE 256 HASH FUNCTION FOR PASSWORD ENCRYPTION AND PARALLEL CRC....247
50	OIC193	SINGLE-PHASE HIGH GAIN DC/DC CONVERTER WITH MULTIPLIER CELL FOR LIGHTING APPLICATIONS USINGFUZZY CONTROLLER....251

Table of Content

51	OIC197	A POLY PHASE SEMI Z- SOURCE INVERTER FOR RENEWABLE ENERGY APPLICATION....257
52	OIC203	PRIVACY PRESERVING DATA MINING APPROACH FOR EXTRACTING FUZZY RULES....262
53	OIC204	CLASP:DETECTING POTENTIAL DEADLOCKS AND ITS REMOVAL BY ITERATIVE METHOD....270
54	OIC205	TKBG- THE KNOWLEDGE BASED GREP USING SELF-KEY DISCOVERY AND SEMANTIC LINKING FOR ONLINE RESOURCES....275
55	OIC212	WEB BASED DOCUMENT MANAGEMENT SYSTEMS IN LIFE SCIENCE ORGANIZATION....282
56	OIC214	VOLTAGE COMPENSATION FOR AN 11KV DISTRIBUTION SYSTEM USING ASYMMETRICAL SEVEN LEVEL CHB INVERTER....285
57	OIC215	H6 INVERTER INTEGRATED WITH BOOST CONVERTER FOR PV APPLICATION....289
58	OIC226	PRESERVING LOCATION PRIVACY IN GEOSOCIAL APPLICATIONS....295
59	OIC260	EFFICIENT SEARCH ENGINE APPROACH FOR MEASURING SIMILARITY BETWEEN WORDS....298
60	OIC266	ADVANCED STUDY OF THERMAL MANAGEMENT AND ANALYSIS OF WEDGE STRUT FOR SCRAMJETS....303
61	OIC274	A REVIEW ON SMART HOME TECHNOLOGY....308
62	OIC275	HIGHLY SECURED CLOUD BASED PERSONAL HEALTH RECORD MODEL....311
63	OIC277	CRASH - CUED RECALL AUTHENTICATION RESISTANT TO SHOULDER SURFING ATTACK....315
64	OIC278	REAL TIME COMPRESSED SENSORY DATA PROCESSING FRAMEWORK TO INTEGRATE WIRELESS SENSORY NETWORKS WITH MOBILE CLOUD....319
65	OIC283	DIFFERENT TECHNIQUES FOR SATELLITE IMAGE SEGMENTATION....323
66	OIC284	CLASSIFICATION & DETECTION OF NEAR DUPLICATE WEB PAGES USING FIVE STAGE ALGORITHM....329
67	OIC287	A NOVEL METHOD TO CLASSIFY ORGANIZATIONAL DATA USING CIA TREE APPROACH....334

Table of Content

68	OIC1000	TRACKING DOWN HIGH COVERAGE CONFIGURATION USING CLUSTERING AND FAULT DETECTION....339
69	OIC149	EFFICIENT AND EARLY DETECTION OF OSTEOPOROSIS USING TRABECULAR REGION....344
70	OIC199	ADAPTIVE DATA HIDING SCHEME BY DWT AMONG ROBUSTNESS BESIDE COMPRESSION....349
71	OIC200	ROBOTIC CONTROL BY USING VIRTUAL METHOD....353
72	OIC201	ENERGY-OPTIMAL SCHEDULING WITH DYNAMIC CHANNEL ATTAINMENT IN WIRELESS DOWNLINKS....357
73	OIC202	HARDWARE REDUCTION OF DSP KERNEL DATA PATH USING CARRY SAVE ARITHMETIC OPERATION IN FUSED ADD MULTIPLY ADD UNIT....359
74	OIC209	GDI BASED AREA DELAY POWER EFFICIENT CARRY SELECT ADDER....365
75	OIC225	ANALYZING THE REGULARITY OF COMPLETE K-PARTITE GRAPH USING SUPER STRONGLY PERFECT GRAPHS....370
76	OIC233	PROTECTION OF MEMORY USING CODE REDUNDANCIES A SURVEY....375
77	OIC235	STUDY AND ANALYSIS OF RECTIFYING ANTENNA FOR WIRELESS TRANSMISSION....379
78	OIC236	LOAD BALANCING BASED ENERGY EFFICIENT ROUTING APPROACH FOR HETEROGENEOUS WIRELESS SENSOR NETWORKS....382
79	OIC237	QOS ENHANCED CLUSTER ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORKS....394
80	OIC250	SURVEY ON PROPERTIES AND ACCURACY ASSESSMENT OF CLIMATE CHANGES USING HYPERSPECTRAL IMAGING....399
81	OIC251	THE STUDY OF MICROSTRIP ANTENNA AND THEIR APPLICATIONS....405
82	OIC252	SURVEY ON TEMPERATURE PROCESS CONTROL USING SOFT COMPUTING....408
83	OIC253	REVIEW OF CLOCK DISTRIBUTION NETWORKS....411

Table of Content

84	OIC255	MAGNETO-ELECTRIC DIPOLE ARRAY WITH OPTIMIZED ANTENNA PARAMETERS....415
85	OIC257	DESIGN OF ENERGY EFFICIENT SEMI-SERIAL ON-CHIP COMMUNICATION LINK....419
86	OIC217	A FRAMEWORK FOR ULTRA-RESPONSIVE LIGHT WEIGHT WEB APPLICATION USING ANGULARJS....425
87	OIC242	DESIGN MODEL ON SHIP TRAJECTORY CONTROL USING PARTICLE SWARM OPTIMISATION....429
88	OIC245	COMPARATIVE RESULTS PERFORMANCE ANALYSIS OF VARIOUS FILTERS USED TO REMOVE NOISES IN RETINAL IMAGES....435
89	OIC1001	SHUNT ACTIVE POWER FILTER USING HYSTERESIS AND PI CONTROL FOR IMPROVING THE POWER QUALITY USING MATLAB....440
90	OIC1002	7-TRANSISTOR 2-MEMRISTOR BASED NON-VOLATILE STATIC RANDOM ACCESS MEMORY CELL DESIGN....445
91	OIC1003	EFFECT OF LEAKAGE POWER REDUCTION TECHNIQUES ON COMBINATIONAL CIRCUITS....449
92	OIC171	A HYBRID GENETIC ALGORITHM AND BACK-PROPAGATION ARTIFICIAL NEURAL NETWORKBASED SIMULATION SYSTEM FOR MEDICAL IMAGE RECONSTRUCTION IN NOISE-ADDED MAGNETIC RESONANCE IMAGING DATA....455
93	OIC174	MINIMIZE THE MEAN SQUARE ERROR BY DATA SEGREGATION APPROACH FOR BACKPROPAGATION ARTIFICIAL NEURAL NETWORK WITH ADAPTIVE LEARNING BASED IMAGE RECONSTRUCTION IN ELECTRON MAGNETIC RESONANCE IMAGING TOMOGRAPHY....461