2016 International Conference on **Information Communication and Embedded Systems** (ICICES 2016)

Chennai, Tamilnadu, India 25 – 26 February 2016



IEEE Catalog Number: CFP1674U-POD ISBN:

978-1-5090-2553-4

Copyright © 2016 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 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:
 CFP1674U-POD

 ISBN (Print-On-Demand):
 978-1-5090-2553-4

 ISBN (Online):
 978-1-5090-2552-7

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



2016 INTERNATIONAL CONFERENCE ON INFORMATION COMMUNICATION AND EMBEDDED SYSTEMS (ICICES)

TABLE OF CONTENTS

| S.NO | ID | COMPUTER SCIENCE | ٦ |
|------|--------|--|-----|
| 1. | CS1011 | A NOVEL FRAMEWORK FOR OPTIMAL COMPONENT BASED DATA CENTER ARCHITECTURE | 1 |
| 2. | CS1012 | ENERGY EFFICIENT INFORMATION GATHERING IN WIRELESS SENSOR NETWORKS USING COMPRESSIVE SENSING | 11 |
| 3. | CS1013 | A GRAPH AND CONNECTED DOMINATING SET-BASED MATHEMATICAL MODEL FOR TASK MAPPING IN CLOUD COMPUTING | 19 |
| 4. | CS1020 | SMART AND SIMPLE METHOD FOR ENCRYPTING AND DECRYPTING IMAGE BASED ON CROSSOVER OF GA | 25 |
| 5. | CS1022 | ENABLING EFFICIENT AND PROTECTED SHARING OF DATA IN CLOUD COMPUTING | 33 |
| 6. | CS1024 | CRYPTIC TRANSMISSION OF TELUGU TEXT | 38 |
| 7. | CS1025 | EFFICIENT PRIVACY PRESERVATION TECHNIQUE FOR HEALTHCARE RECORDS USING BIG DATA | 44 |
| 8. | CS1028 | IMPROVED BLOCK ENCODING METHOD FOR AN IMAGE SELF-RECOVERY APPROACH | 50 |
| 9. | CS1029 | AN EFFECTIVE CONTENT-BASED IMAGE RETRIEVAL FROM HUGE DATABASE SETS | 55 |
| 10. | CS1032 | CYBER SECURITY AUTOMATION FOR CONTROLLING DISTRIBUTED DATA | 59 |
| 11. | CS1034 | | |
| 12. | CS1036 | DETECTION OF SELFISH & MALICIOUS BEHAVIOR USING DTN- CHORD MONITORING IN MOBILE NETWORKS | 63 |
| 13. | CS1038 | ANT BASED MOBILITY AIDED ROUTING IN MOBILE WIRELESS SENSOR NETWORKS | 68 |
| 14. | CS1039 | CLUSTER BASED FAULT TOLERANCE USING GENETIC ALGORITHM IN WIRELESS SENSOR NETWORK | 73 |
| 15. | CS1040 | DETECTION OF CYBER CRIME : AN APPROACH USING THE LIE DETECTION TECHNIQUE AND METHODS TO SOLVE IT | 75 |
| 16. | CS1041 | RESEARCH PAPER ON E-LEARNING APPLICATION DESIGN FEATURES USING CLOUD COMPUTING & SOFTWARE ENGINEERING APPROACH | 83 |
| 17. | CS1042 | SECURITY AGAINST SYBIL ATTACK IN SOCIAL NETWORK | 8.9 |

| | 1 | | 1 |
|-----|--------|--|-----|
| 18. | CS1043 | ENHANCED BETA TRUST MODEL IN WIRELESS SENSOR NETWORKS | 94 |
| 19. | CS1044 | PREVENTION OF CREDIT CARD FRAUD DETECTION BASED ON HSVM | 99 |
| 20. | CS1045 | DATA ASSET BY QUERY PROCESSING IN CLIENT AND SERVER | 103 |
| 21. | CS1046 | EFFICIENT RANGE QUERY PROCESSING, LOAD BALANCING AND FAULT TOLERANCE WITH POPULAR WEB CACHE IN DHT | 107 |
| 22. | CS1048 | DOS ATTACK ON VANET ROUTING AND POSSIBLE DEFENDING SOLUTIONS-A SURVEY | 111 |
| 23. | CS1051 | SMART DISTRIBUTED WEB CRAWLER | 118 |
| 24. | CS1054 | EFFICIENT REPLICA CONSISTENCY MODEL (ERCM) FOR UPDATE PROPAGATION IN DATA GRID ENVIRONMENT | 123 |
| 25. | CS1057 | IMPROVED DATA TRANSFER SCHEDULING AND OPTIMIZATION AS A SERVICE IN CLOUD | 130 |
| 26. | CS1058 | OPTIMIZING DATA MOVEMENT WITHIN CLOUD ENVIRONMENT USING EFFICIENT COMPRESSION TECHNIQUES | 133 |
| 27. | CS1064 | EFFICIENT GRAY IMAGE WATERMARKING ALGORITHM BASED ON DWT-SVD USING GENETIC ALGORITHM | 138 |
| 28. | CS1066 | REVIEW ON DETERMINATION OF MACRONUTRIENTS FROM COMPOST | 143 |
| 29. | CS1068 | ARTIFICIAL NEURAL NETWORK USING BACK PROPAGATION ALGORITHM IN DISTRIBUTED MANETS | 147 |
| 30. | CS1069 | EFFICIENT DATA SCHEDULING TECHNIQUE AT RSU FOR VEHICULAR AD-HOC NETWORKS | 151 |
| 31. | CS1070 | FOUNTAIN CODE BASED CLOUD STORAGE MECHANISM FOR OPTIMAL FILE RETRIEVAL DELAY | 158 |
| 32. | CS1072 | INCREASING LIFESPAN AND ACHIEVING ENERGY EFFICIENCY OF WIRELESS SENSOR NETWORK | 162 |
| 33. | CS1076 | R EAL TIME MULTITASKING IN ARDUINO USING LOOK-UP TABLE | 167 |
| 34. | CS1077 | REVIEW OF BIG DATA ENVIRONMENT AND ITS RELATED TECHNOLOGIES | 172 |
| 35. | CS1079 | NETWORK UNIVERSITIES (SUBTITLE: EMERGING DEMAND OF INDIAN EDUCATION SECTOR) | 177 |
| 36. | CS1087 | DEFENDING COLLABORATIVE ATTACKS IN MANETS USING MODIFIED COOPERATIVE BAIT DETECTION SCHEME | 181 |
| 37. | CS1088 | AUTOMATIC GENERATION OF BASIS TEST PATH USING CLONAL SELECTION ALGORITHM | 187 |

| 38. | CS1089 | AN ENHANCED SELF-SCHEDULED ACCESS CONTROL IN VEHICULAR AD HOC NETWORKS (VANET) | 191 |
|-----|--------|--|-----|
| 39. | CS1091 | IMPLEMENTATION OF REALTIME LOW VOLTAGE SYSTEM FOR ENHANCEMENT OF SAFETY IN AN ELECTRIC VEHICLE | N/A |
| 40. | CS1092 | PERFORMANCE ANALYSIS OF SPATIAL DOMAIN DIGITAL WATERMARKING TECHNIQUES | 196 |
| 41. | CS1093 | SOLUTION TO GRAPH COLORING PROBLEM USING DIVIDE AND CONQUER BASED GENETIC METHOD | 200 |
| 42. | CS1103 | A TRUSTWORTHY EWOM IN SOCIAL NETWORKS | 205 |
| 43. | CS1105 | SEQUENTIALLY ROTATED GAP-COUPLED CIRCULAR SLOT CUT CIRCULAR MICROSTRIP ANTENNAS | 211 |
| 44. | CS1107 | DIVIDE AND CONQUER BASED GENETIC METHOD FOR SOLVING CHANNEL ALLOCATION | 217 |
| 45. | CS1108 | TWEET SPECIFIC EXTRACTIVE SUMMARIZATION FRAMEWORK TOWARDS TRENDING TOPIC ANALYSIS | 221 |
| 46. | CS1110 | LOW COST ARDUINO WIFI BLUETOOTH INTEGRATED PATH FOLLOWING ROBOTIC VEHICLE WITH WIRELESS GUI REMOTE CONTROL | 227 |
| 47. | CS1112 | IMPROVED WEB SERVICE RECOMMENDATION VIA EXPLOITING LOCATION AND QOS INFORMATION | 232 |
| 48. | CS1115 | A NOVEL ALGORITHM TO IMPROVE PERFORMANCE IN MAPREDUCE ENVIRONMENT USING JOIN OPERATIONS | 237 |
| 49. | CS1118 | ENERGY EFFICIENT RESOURCE PROVISIONING WITH DYNAMIC VM PLACEMENT USING ENERGY AWARE LOAD BALANCER IN CLOUD | 241 |
| 50. | CS1119 | A SURVEY ON HUMAN ACTIVITY RECOGNITION FROM VIDEOS | 247 |
| 51. | CS1123 | A MULTSTAGE LOAD BALANCING TECHNIQUE FOR CLOUD ENVIRONMENT | 254 |
| 52. | CS1124 | CLOUDQKDP: QUANTUM KEY DISTRIBUTION PROTOCOL FOR CLOUD COMPUTING | 261 |
| 53. | CS1125 | REWARDRANK: A NOVEL APPROACH FOR POSITIONING USER ANSWERS IN COMMUNITY QUESTION ANSWERING SYSTEM | 267 |
| 54. | CS1126 | A SURVEY ON INFLUENCE SPREADER IDENTIFICATION IN ONLINE SOCIAL NETWORK | 273 |
| 55. | CS1127 | MITIGATION OF SWITCH-DOS IN SOFTWARE DEFINED NETWORK | 280 |
| 56. | CS1129 | A REVIEW ON PUBLIC AUDITING IN CLOUD ENVIRONMENT | 285 |

| | | |] _ |
|-----|--------|--|-----|
| 57. | CS1131 | A NOVEL VISUAL CRYPTOGRAPHIC SCHEME FOR IMPROVED BINARY IMAGE QUALITY | 29 |
| 58. | CS1132 | FUZZY C STRANGE POINTS CLUSTERING ALGORITHM | 29 |
| 59. | CS1134 | ENHANCED PEGASIS USING ANT COLONY OPTIMIZATION FOR DATA GATHERING IN WSN | 30 |
| 60. | CS1135 | ANALYTICAL ENERGY CONSUMPTION MODEL FOR PACKET TRANSFER OVER WIRELESS MULTIHOP NETWORK | 30 |
| 61. | CS1140 | PREDICTION OF BREAST CANCER USING CLASSIFICATION RULE MINING TECHNIQUES IN BLOOD TEST DATASETS | 30 |
| 62. | CS1141 | LCP&TS: LOGICAL CACHE PARTITIONING AND THREAD SHARING REPLACEMENT POLICY FOR MULTI-THREADED APPLICATIONS | 31 |
| 63. | CS1143 | DATA LEAKAGE PREVENTION SYSTEM WITH TIME STAMP | 31 |
| 64. | CS1144 | CROSS LAYER INTRUSION DETECTION AND PREVENTION OF MULTIPLE ATTACKS IN WIRELESS SENSOR NETWORK USING MOBILE AGENT | 32 |
| 65. | CS1145 | RETRIEVAL OF SECURED DATA FOR DECENTRALIZED DISRUPTION TOLERANT NETWORK IN MILITARY ENVIRONMENT | 32 |
| 66. | CS1151 | A REVIEW OF BULK DATA DISSEMINATION PROTOCOLS FOR REPROGRAMMING IN WSN | 33 |
| 67. | CS1154 | APPLICATION OF QFD TECHNIQUE TO ENHANCE SUGGESTION FOR AGRICULTURAL INFORMATION SERVICE | 33 |
| 68. | CS1156 | REVIEW ON DEVELOPMENT OF SOME STRONG VISUAL CAPTCHAS AND BREAKING OF WEAK AUDIO CAPTCHAS | 34 |
| 69. | CS1157 | A SURVEY OF VOICE TRANSLATION METHODOLOGIES - ACOUSTIC DIALECT DECODER | 35 |
| 70. | CS1158 | BALANCED CLUSTERING IN MOBILE AD HOC NETWORKS USING ROUTE CLUSTER | 35 |
| 71. | CS1159 | A NOVEL ROBUST ROUTING PROTOCOL RAEED TO AVOID DOS ATTACKS IN WSN | 36 |
| 72. | CS1160 | RESILIENT SYSTEM FOR SECURE SHARING OF INFORMATION AGAINST FALSE DATA INJECTION ATTACK | 36 |
| 73. | CS1161 | QUERY PROCESSING USING PRIVACYPRESERVING K-NN CLASSIFICATION OVER ENCRYPTED DATA | 37 |
| 74. | CS1162 | IDENTIFYING SELFISH NODES USING MUTUAL NEIGHBOR BASED WATCHDOG MECHANISM FOR DTN | 37 |
| 75. | CS1163 | A SURVEY ON AUTHENTICATION SCHEMES OF VANETS | 38 |

| 76. | CS1164 | AN ENHANCED ITERATIVE FILTERING TECHNIQUE FOR DATA AGGREGATION IN WSN | 391 |
|-----|--------|---|-----|
| 77. | CS1165 | STRATIFIED REPORT ASSISTED REPUTATION ADMINISTRATION (SRA) SYSTEM FOR MANETS | 397 |
| 78. | CS1166 | A SURVEY ON THE UTILIZATION OF ANT COLONY OPTIMIZATION (ACO) ALGORITHM IN WSN | 402 |
| 79. | EC1061 | REVIEW ON SENSING THE FERTILITY CHARACTERISTICS OF AGRICULTURE SOILS | 406 |
| 80. | EC1063 | ANALYSIS OF ENHANCED CHANNEL ESTIMATION TECHNIQUES IN HIGH MOBILITY OFDM SYSTEMS | 410 |
| 81. | EC2003 | CLUTTER REDUCTION TECHNIQUES OF GROUND PENETRATING RADAR FOR DETECTING SUBSURFACE EXPLOSIVE OBJECTS | 422 |
| 82. | EC2016 | IMPACT OF AN ELECTROMAGNETIC THREAT ON CYBERSPACE AND CYBER SECURITY AGAINST EM THREAT | 429 |
| 83. | EC2018 | IMPLEMENTATION OF 8 BIT PROCESSING ELEMENT FOR EDGE DETECTION TECHNIQUES | 434 |
| 84. | EC2030 | A DISTRIBUTED FAIR CHANNEL USING MAC FOR 5G-WIRELESS NETWORK | 439 |
| 85. | EC2031 | INVESTIGATION OF ALGORITHMS FOR REDUCING DELAY IN COGNITIVE RADIO NETWORKS | 444 |
| 86. | EC2040 | DESIGN OF FREQUENCY RECONFIGURABLE ANTENNA WITH AMBIENT RF-ENERGY HARVESTER SYSTEM | 454 |
| 87. | EC2068 | 2D – GAME DEVELOPMENT USING RASPBERRY PI | 459 |
| 88. | EC2070 | ANALYSIS OF WINDOWING TECHNIQUES FOR SPEECH EMOTION RECOGNITION | 467 |
| 89. | EC2071 | PREPROCESSING TECHNIQUES OF FACIAL IMAGE WITH MEDIAN AND GABOR FILTERS | 473 |
| 90. | EC2074 | ENRICHED IMAGE DEMOSAICING USING ILLUMINATE NORMALIZATION AND CONTENT BASED COLOR FILTER ARRAY | 479 |
| 91. | EC2075 | PATCH ORDERING BASED SAR AND IMAGE DESPECKLING VIA SSC AND WAVLET THRESHOLDING | 489 |
| 92. | EC2080 | NEAR DUPLICATE IMAGE MATCHING TECHNIQUES | 499 |
| 93. | EC2082 | BROADBAND VARYING ANGLE SHORTED SECTORAL MICROSTRIP ANTENNAS WITH RECTANGULAR SLOT | 504 |
| 94. | EC2083 | ULTRA-WIDEBAND PLUS SHAPED MICROSTRIP ANTENNA | 510 |
| | | | l |

| | | BY COGNITIVE RADIO USERS |
|---------|----------|---|
| | | |
| 96. | EC2087 | MICROSTRIP ANTENNA OPTIMIZATION USING SPLIT RING AND COMPLEMENTARY SPLIT RING RESONATOR |
| 97. | EC2089 | ALTERNATE MACHINE VALIDATION OF EARLY BRAIN TUMOR DETECTION |
| 98. | EC2090 | 4.5G: A MILESTONE ALONG THE ROAD TO 5G |
| 99. | EC2091 | A ZIGBEE BASED ENERGY EFFICIENT ENVIRONMENTAL MONITORING ALERTING AND CONTROLLING SYSTEM |
| 100. | EC2092 | DETECTION AND CLASSIFICATION OF POWER QUALITY DISTURBANCES USING CURVELET TRANSFORM AND SUPPORT VECTOR MACHINES |
| 101. | EC2095 | AUTOMATIC TEST CASE GENERATION FOR PROGRAMMABLE LOGIC CONTROLLER USING FUNCTION BLOCK DIAGRAM |
| 102. | EC2098 | UNIFIED EMBEDDING METHOD FOR COLOR IMAGE STEGANOGRAPHY |
| 103. | EE1061 | DESIGN OF A CONTROLLER FOR THE PNEUMATIC FLOW CONTROL VALVE AND PRESSURE REGULATION FOR APPLICATION RELATED TO PNEUMATICALLY POWERED ORTHOSIS |
| 104. | EE3004 | A TOPOLOGY FOR NETWORK-ON-CHIP |
| 105. | EE3005 | A MULTIPATH NETWORK-ON-CHIP TOPOLOGY |
| 106. | EE3010 | REAL TIME INTELLIGENT IMAGE PROCESSING SYSTEM WITH HIGH SPEED SECURED INTERNET OF THINGS |
| 107. | EE3011 | POWER OPTIMIZATION BY HONEY BEE MATING ALGORITHM IN INTEGRATED ENERGY GRID |
| 108. | EE3015 | WAVELET SINGULAR ENTROPY APPROACH FOR FAULT DETECTION AND CLASSIFICATION OF TRANSMISSION LINE COMPENSATED WITH UPFC |
| 109. | EE3016 | FUZZY LOGIC CONTROLLED WIND TURBINE EMULATOR (WTE) |
| 110. | EE3026 | IMPLEMENTATION OF REAL TIME LOW VOLTAGE SYSTEM FOR ENHANCEMENT OF SAFETY IN AN ELECTRIC VEHICLE |
| 111. | EE3030 | MIXED CNT BUNDLE INTERCONNECTS FOR SUBTHRESHOLD CIRCUITS |
| 112. | EE3037 | WIBED ² :A COMMUNICATION AID FOR DEAF AND DUM |
| 113. | EE3039 | DESIGNING AND COMPARISON OF CONTROLLERS BASED ON OPTIMIZATION TECHNIQUES FOR PH NEUTRALIZATION PROCESS |
| 114. | EE3072 | A NOVEL TYPE-2 FUZZY DIRECTED HYBRID POST-FILTERING TECHNIQUE FOR EFFICIENT JPEG IMAGE ARTIFACT REDUCTION |
| ODTTTON | I Atı | ENCOVOTED MILITLE EVWOOD DANKED SEADCH SUPPORTING CRAM RASED |

ADDITIONAL PAPERS:

ENCRYPTED MULTI-KEYWORD RANKED SEARCH SUPPORTING GRAM BASED SEARCH TECHNIQUE

625

631

OPTIMIZING THE JITTER LOSSES USING ADAPTIVE JITTER BUFFER AT THE RECEIVER