

2016 International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT 2016)

**Kumaracoil, India
16-17 December 2016**



**IEEE Catalog Number: CFP1630Y-POD
ISBN: 978-1-5090-5241-7**

**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 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:	CFP1630Y-POD
ISBN (Print-On-Demand):	978-1-5090-5241-7
ISBN (Online):	978-1-5090-5240-0

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

**2016 INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION, COMMUNICATION AND
COMPUTATIONAL TECHNOLOGIES (ICCICCT) ICCICCT-2016**

TABLE OF CONTENTS

Sl.No	ICCICCT ID	Authors	Title	Page No.
1.	3	Biswal M, Nagaraju K V	Active Power Based Method to Prevent Zone-3 maloperation during Voltage Instability	1
2.	12	Surabhi B R, Sreyas N Nampoothiri, Jayakrishnan P	Design of Area Efficient and Low Power Reed Solomon Decoder	5
3.	21	Himanshu K Patel, Purva Joshi	Role of Optimization In Pulverization Process of Thermal Power Plant	8
4.	25	Yogeshwar Kumar Chourasia, Shanmughasundram R	Robustness check of AUTOSAR Partial Network Specification and solution to an ECU-GW response issue	13
5.	27	Vijayalakshmi K, Martin Leo Manickam J	Mobisink- Intelligent Mobility Pattern based Routing Protocol for Efficient Data Gathering in Large Scale Wireless Sensor Networks	21
6.	28	Anandh N, Pramod Antony D'sa, Gautam M V, Sai Sandeep V	Power Quality Estimation, Analysis and Improvement for Uninterrupted Power Supply	26
7.	33	Kamran H Pathan, Minakshee M Patil	Survey of Cooperative Advance Driver Assistance Systems	32
8.	36	Ravi V Gandhi, Dipak M Adhyaru	Feedback Linearization based Optimal Controller Design for Electromagnetic Levitation System	36
9.	39	Vidya SB, Finitha KC, Jayanta Dhoaya, Shashi Krishna, Ramesh N, Jayakumar M, Shyam Mohan N, Aisha Sidhick, Suma MN, Narasimha Prasad, Murugesan V	Differential pressure based angle of attack estimation in a Flush Air Data System (FADS)	42

Sl.No	ICCICCT ID	Authors	Title	Page No.
10.	44	Nidhin T S, Anindya Bhattacharyya, Behera R P, Jayanthi T, Velusamy K	SEU Mitigation by Golay Code in the Configuration Memory of SRAM based FPGAs	49
11.	45	Kalaiyarasi M, Saravanan S, Perumal B	A survey on: Various De-speckling Methods of SAR image.	54
12.	51	Venkata SreeKrishna Koganti, Lavanya K Galla, Nagarjuna Nuthalapati	Internet Worms and its Detection	64
13.	52	Venkata SreeKrishna Koganti, Lavanya K Galla, Nagarjuna Nuthalapati, Anil Varma Kakarlapudi	Authentication Protocols Using Encryption Techniques	74
14.	53	Lavanya K Galla, Venkata SreeKrishna Koganti, Nagarjuna Nuthalapati	Implementation of RSA	81
15.	55	Chadrakala B M, Lingareddy S C	Secure and Efficient Bi-Directional Proxy Re-Encryption Technique	88
16.	58	Aswathy Mariam Jacob, Viswanatha Rao S, Sakunthala S Pillai	Reducing Energy Consumption by Cross Layer Design in Wireless Sensor Networks	93
17.	62	Prashant A R, Madheswaran M, Varun Kartik, Ramesh Naidu V, Govindan P, Aravindakshan P	System development for Micro Vibration Measurements on Spacecrafts	98
18.	66	Hamid Roomi Talkhaby, Reza Parsamehr	Cloud Computing Authentication Using Biometric-Kerberos scheme based on Strong DiffiHellman-DSA Key Exchange	104
19.	68	Jagadesh T, Sheela Rani B	Actualization of a Phased Array Antenna Utilizing Digital Beamforming	111
20.	69	Malini S, Moni R S	Multiresolution Denoising Techniques of Color Images with Singularities like Direction, Line, Curve and Texture	117
21.	70	Md Raquibuzzaman, Khan Muhammad Nafiul Akbar, Md. Mamun Uddin	Simple, Low cost Micro-Controller based Data Communication System using Ambient Light Sensor for VLC	121

Sl.No	ICCICCT ID	Authors	Title	Page No.
22.	72	Poornima S, Pugazhendhi Sugumaran C	Identification of Ferroresonance Phenomena using Wavelet Transforms	126
23.	74	Smitha G L, Baburaj E	A Survey on Image Steganography Based on Block-Based Edge Adaptive Based on Least Significant Bit Matched Revisited (LSBMR) Algorithm	132
24.	76	Palak Uday Shimpee, Himanshu Tyagi, Nital Patel	Development of a slow controller based prototype for Data Acquisition and Control System for Fusion Research and Development	140
25.	77	Vitaly Kuznetsov, Alexey Malyshev, Alexey Solodkov	A Method Of Quadrature Digital Modulation APSK – PAM	143
26.	79	Reji Kumar K, Naisal S A	Interior Exterior and Boundary of fuzzy Soft Multi Topology in Decision Making	147
27.	80	Seyed Farshad Hosseini Nezhad, Reza Parsamehr	Mutual Authentication Protocol to Share Files in Cloud Storage	153
28.	81	Indhuja R, Kamaraj N	Implementation of PSO tuned robust 2DOF PID controller for AVR system	159
29.	82	Tinku Kumar, Mane P B	ZigBee topology: A Survey	164
30.	85	Bagavathi Lakshmi R, Parthasarathy S	An Efficient Human Action Recognition Approach using FCM and Random Forest	167
31.	89	Sreenu G	Simulation of Hybrid reputation model in P2P security: To envisage the federation of peers	173
32.	90	Aiswarya P M, Archana Raj, Dona John, Liya Martin, Sreenu G	Binary RSA Encryption Algorithm	178
33.	91	Satya Ranjan Sahoo, Harshit Singh, Merwyn Dennis, Karthik P	A case study on pressure switch	182
34.	93	Roopa H, Asha T	Segmentation of X-Ray Image using City Block Distance Measure	186
35.	96	Raj Kumar Naik M, Samundiswary P	Wireless Body Area Network Security issues- Survey	190

Sl.No	ICCICCT ID	Authors	Title	Page No.
36.	98	Kirtika Sharma, Anurag Singh, Balwinder Singh	Repository of Arbitration Cores (ROAC) for Scheduling in Various Multi-Processor SOCs	195
37.	101	Vasudeva Reddy T, Madhavi B K	Analysis & Design of Robust Ultra-Low Power Subthreshold SRAM models	200
38.	102	Anand V S, Sindhu N	Characteristic Numerical Study on the Influence of various Passive Optical Materials coated Device Response in Ultra Fast Laser systems	205
39.	107	Rohith Balaji Jonnala, Naga Raju Eluri, Sai Babu Choppavarapu	Implementation, Comparison and Experimental Verification of Nearest Vector Control and Nearest Level Control Techniques for 27-Level Asymmetrical CHB Multilevel Inverter	214
40.	108	Chun-Ming Wen, Shih-Ching Huang, Sheng-Hua Yang, Yi-Cheng Chen	Control of speed of a hand-held electrical nutrunner system using adaptive disturbance compensator	222
41.	109	Aleksandr Timoshenko, Alexander Bakhtin, Igor Teplyakov, Vitaliy Kuznetsov, Alexey Solodkov, Ksenia Molenkamp, Alexey Malyshev, Alexey Volkov, Niek B Molenkamp, Alexey Lisov	MANET Omnidirectional Radio Outdoor Mapping with Energetically Concealed Location	228
42.	110	Alexander Bakhtin, Alexey Volkov, Vladimir Galenko, Alexander Ugrovatov, Said Muratchaev, Dmitri Popkov	Medium Access Control for Mobil Ad-Hoc Network with Broadcast Priority	233
43.	113	Disha Yadav, Ashutosh Nandi	Comparative Analysis of Digital IIR Filter using Add and Shift Method on Xilinx Platform	238
44.	115	Adepu Ashok Kumar, Shanmuganatham T, Madireddy Srikanth Reddy	Performance Analysis of MEMS Resonator For Filter Application	242
45.	116	Bharath Kumar K, Shanmuganatham T	SIW Hydride Coupler for mm-Wave applications	246
46.	117	Shanmuganatham T, Deepanshu Kaushal	Multipurpose Microstrip Battery Strength Indicator Patch Antenna Using Coaxial Feed	251

Sl.No	ICCICCT ID	Authors	Title	Page No.
47.	118	Shanmuganantham T, Deepanshu Kaushal	Design of Dual Band Microstrip Key Patch Antenna for Aeronautical Mobile and Broadcasting Applications	257
48.	119	Elavarasi C, Shanmuganantham T	SRR loaded Crescent Patch- Koch curve fractal for dual band applications	263
49.	120	Raman R, Shanmuganantham T	Design and Modeling of RF MEMS Metal Contact Switch for Wireless Applications	268
50.	121	Gobalakrishnan N, Arun C	SIS: A Scheme for Dynamic Independent Task Scheduling In a Cloud Environment	272
51.	122	Leena B, Ashok Kumar S, Shanmuganantham T	A Compact CPW Fed Antenna For Multiband Applications	278
52.	123	Nitish Kumar, Ghose T, Neogi N	Torque Modulation in Rotating-Blade Systems using a Novel Magnetic Arrangement	282
53.	124	Nanda Kumar, Shanmuganantham T	Substrate Integrated Waveguide Shaped Slot Antenna for 57-64GHz Band Applications	288
54.	125	Kiruthika R, Shanmuganantham T, Rupak Kumar Gupta	A Fan Shaped Triple Band Microstrip Patch Antenna with DGS for X-band Applications	292
55.	126	Rupak Kumar Gupta, Shanmuganantham T, Kiruthika R	A Staircase Hexagonal Shaped Microstrip Patch Antenna for Multiband Applications	298
56.	127	Karmugil M, Anusudha K	Design of Circular Microstrip Patch Antenna for Ultra Wide Band Applications	304
57.	128	Shweta Patil, Fatima.N.Kudchi, Vinuta.V Koluragi	Novel Phase Modulated Current-Fed Converter for Fuel/PV Cell Standalone System Analysis, Design, and Simulation Results	309
58.	129	Balavignesh J, Karthikeyan S, Arun Kumar V	Automatic French Fries Making Machine	314
59.	130	Bestley Joe S, Maflin Shaby S	A Systematic Review On The Research Headway of Piezoelectric Diaphragms For Micro Electromechanical Applications	319

Sl.No	ICCICCT ID	Authors	Title	Page No.
60.	131	Palle Prasanth Kumar, Gowreesrinivas K V, Samundiswary P	Design And Analysis Of Turbo Encoder Using Xilinx ISE	328
61.	132	Mahsa Shahgholian, Sanaz Tahmasebi, Hamid Khaloozadeh	A Fuzzy Extended Kalman Filter for Mobile Robot Localization in High Amount of Measurement Noise	333
62.	134	Swapna P S, Sakuntala S Pillai	Optimized Uplink Resource Allocation Scheme for OFDMA System	339
63.	135	Nilesh Fal Dessai, Jyoti Pawar, Gaurav Naik	Development of Konkani TTS System using Concatenative Synthesis	344
64.	137	Vishnudharan B, Anusudha K	A Discriminative Model For Facial Expression Recognition Using Local Directional Number Pattern	349
65.	138	Vivek A, Shambavi K, Zachariah C Alex	Simulation Study of ENG based Metamaterial Structures	353
66.	140	Gowdham Prabhakar, Rajesh J, Pradipta Biswas	Comparison of three Hand Movement Tracking Sensors as Cursor Controllers	358
67.	142	Khushboo Soni, Somnath Arjun, Pradipta Biswas	User Inclusive Crowd Sourcing Disaster Reporting System Reporting and Forecast	365
68.	143	Alexander Ugrovatov, Alexander Bakhtin, Alexey Volkov, Vladimir Galenko, Said Muratchaev	Using scenarios for Performance analysis of MANET protocols in space operations	374
69.	145	Chandiea L, Anusudha K	Pentagon Shaped Microstrip Patch Antenna With Metamaterial For UWB Application	377
70.	146	Bibhudutta Jena, Mahendra Kumar Gourisaria, Siddharth Swarup Rautaray, Manjusha Pandey	Improvising Name Node Performance By Aggregator Aided HADOOP Framework	382
71.	148	Sumangali K, Geetika B S R, Harshitha Ambarkar	A Classifier Based Approach for Early Detection of Diabetes Mellitus	389

Sl.No	ICCICCT ID	Authors	Title	Page No.
72.	149	Mallikharjuna Rao Sathuluri, Santhi Kiran Bathula, Pavankumar Yadavalli, Ramarao Kandula	Image Processing Based Intelligent Traffic Controlling And Monitoring System Using Arduino	393
73.	150	Lakshmi Narayana Thalluri, Lakkoju Gayathri, Sastry Kalavakolanu S R, Appala Raju Kanakala	Structural Analysis and Design of Microstrip Antenna for S-Band Applications	397
74.	153	Pothirasan N, Pallikonda Rajasekaran M	Automatic Vehicle To Vehicle Communication And Vehicle To Infrastructure Communication Using NRF24L01 Module	400
75.	156	Sana Mol, Resmi R	A Review on the Performance Parameters of Disk Resonators	406
76.	157	Ligin Alphonsa, Resmi R	Performance Metrics Comparison of Various Image Segmentation Methods	410
77.	158	Aleksandr Timoshenko, Ksenia Molenkamp, Egor Belousov	Stabilization and noise suppression method for adaptive feedback circuits	415
78.	159	Andrey Tikhomirov, Elena Omelyanchuk, Anastasia Semenova	Link Budget Estimation for Ultra High Speed Radio Downlink for Prospective Remote Sensing Systems	420
79.	160	Nagarjuna Nuthalapati, Venkata SreeKrishna Koganti, Lavanya K Galla	Reliability of Warning Light Device Applications	425
80.	162	Sophia Jeanne R, Samundiswary P	Power minimization in MIMO-OFDM network with energy harvesting node using Successive Convex Approximation (SCA) technique	431
81.	163	Anita Jasmine R, Arockia Jansi Rani P	A Two Phase Segmentation Algorithm For MRI Brain Tumor Extraction	437
82.	164	Maria Brigitta R, Samundiswary P	A Survey on Shortcut Tree Routing Protocols for Zigbee based Wireless Networks	441

Sl.No	ICCICCT ID	Authors	Title	Page No.
83.	165	Venu Madhav K, Hari Krishna E, Ashoka Reddy K	Extraction of Respiratory Activity from PPG Signals using an Adaptive Fourier Coefficient Estimator	446
84.	166	Manish Kumar, Vrinda Gupta	A Review Paper on Sensor Deployment Techniques for Target Coverage in Wireless Sensor Networks	452
85.	167	Ruchita Nale, Monalisa Biswal	Fault Detection Algorithm for Transmission Line with Thyristor Controlled Series Compensation	457
86.	168	Manjunatha K H, Shilpa Mehta	Reconfigurable Communicating Patch Antenna for Cognitive Radio Applications	461
87.	169	Gowreesrinivas K V, Samundiswary P	Comparative Study on Performance of Single Precision Floating Point Multiplier using Vedic Multiplier and different types of Adders	466
88.	170	Merlin Revathy S, Sindhu N, Sruthi B R	Noise Reduction Architecture In Monaural Hearing Aids	472
89.	172	Prashant Bhopale, Pratik Bajaria, Kazi F S, Singh N M	LMI Based Depth Control for Autonomous Underwater Vehicle	477
90.	173	Seetha Ramanjaneyulu B, Annapurna K	Femtocell Channel Allocations That Reduce Interferences and Optimize Bandwidths	482
91.	176	Gomathi T, Maflin Shaby S	Capacitive Accelerometers For Microelectromechanical Applications: A Review	486
92.	177	Raghuram M, Kosaraju Sivani, Ashoka Reddy K	Reduction of Motion Artifacts from Pulse Oximeter's PPG Signals using MSICA	491
93.	178	Hemjyoti Das, Venkatesh Baskaran, Hemendra Arya	Static performance analysis of electric propulsion system in quadrotors	495
94.	179	Hemjyoti Das	A Comparative Study between a Cant Angle Hexacopter and a Conventional Hexacopter	501
95.	180	Anoushka Kumar A, Resmi R	Analysis of Squeeze Film Air Damping in Fixed-fixed Beam RF MEMS Switches	507

Sl.No	ICCICCT ID	Authors	Title	Page No.
96.	181	Ghanshyam Verma, Priyanka Tripathi	GMRCube: A GPGPU accelerated MapReduce DataCube Construction Model	513
97.	182	Annadurai P, Vijayalakshmi S	Context Centric Cluster Computing in Ad Hoc Network (C4)	518
98.	183	Ulagamuthalvi V, Kulanthaivel G	An Novel Approach For Segmentation Using Brain Images	523
99.	185	Pradeep K, Prem Jacob T	Comparative Analysis Of Scheduling And Load Balancing Algorithms In Cloud Environment	526
100.	189	Xiaorui Wu, Zhenming Song	An Algorithm of the Variable Selection for Solving SAT Problems Based on the Literal Weights	532
101.	190	Abdul Nazar C A, Kannan V	Design Of 4x1 Multiplexer Using Dual Gate MOSFET For Digital Applications Using Equivalent Circuit Method	535
102.	192	Abdullah M Shoeb, Hadeer M Sayed, Norah F Saleh, Ehab I Khafagy, Sameh Neji	Software System to Detect Counterfeit Egyptian Currency	539
103.	193	Saikat Dey, Subham Agarwala	Development of a Digital Phase Angle Meter	549
104.	194	Prasad MR, Manjunath T C	Recognition of Iris images in Non-Angular view and at a Distance	555
105.	195	Pavithra G, Manjunath T C, Dharmanna Lamani	To Diagnose Glaucoma Disease By Different Clinical Parameters – A brief Review	561
106.	197	Hari Krishna E, Sivani K, Ashoka Reddy K	OFDM Channel Estimation using Tunable Q-factor Wavelet Transform	566
107.	200	Albert Mayan J, Shaik Arifa, Pavithra R	Semantic based Multi lexical Ranking Technique for an Effective Search in Protected Cloud	570
108.	203	Ch. Navitha, Sivani K, Ashoka Reddy K	Use of Dual Tree Complex Wavelet Transform for UWB system RAKE receiver	577
109.	205	Ravi Kishore Kodali	An Implementation of MQTT using CC3200	582

Sl.No	ICCICCT ID	Authors	Title	Page No.
110.	206	Neelam Garud, Manisha Chattopadhyay	Optical Properties of Photonic Crystal Waveguide	588
111.	209	Nadar Prince, Sanket Thakare, Samuel Nadar, Vikas Thale, Jatin Desai	Design of front end circuitry for detection of surface EMG using bipolar recording technique	594
112.	210	Jeena R S, Sukesh Kumar	Stroke Prediction Using SVM	600
113.	211	Gennady K Baryshev, Anastasia S Kondratyeva	A Comparison of Principles of Development of Information Measuring Systems and Methods of Experimental Physics for Application of Obtaining and Quality Control of Nanostructured Materials and Composites	603
114.	212	Panasenko R A, Koltsov D G, Alekseev D V, Filin A P	Ensuring the reliability of the sensors for test-and measurement and control systems for direct heating of liquid reagents blocks	607
115.	213	Panasenko R A, Alekseev D V, Filin A P, Koltsov D G	The application of thermal imager in the measuring system of the direct heating block of the solid reactants	611
116.	214	Shoeb A M, Zaki M, Sameh Neji	PPF: A Model-Based Tool for Analyzing E-Payment Protocols	615
117.	215	Anish Hamlin M R, Albert Mayan J	Blood Donation And Life Saver-Blood Donation App	625
118.	216	Ravi Kishore Kodali, Ashwitha Naikoti	ECDH based Security Model for IoT using ESP8266	629
119.	217	Sujolincy J, Murari Devakannan Kamalesh	An Authenticated Smart Card Service Using Cross-cloud And Big Data	634
120.	218	Maheswari S, Reeba Korah	Review on Image Segmentation Based on Color Space And Its Hybrid	639
121.	219	Seelammal C, Vimala Devi K	Computational Intelligence in Intrusion Detection System for Snort log using Hadoop	642
122.	220	Nivetha Sridhar, Sheeba Percis E	Coordination in Charging of Electric Vehicles using Optimization Techniques	648

Sl.No	ICCICCT ID	Authors	Title	Page No.
123.	221	Mercy Paul Selvan, Chandra Sekar A	Ranking Scientific Journals Based On Research Author's Profile	652
124.	222	Sharon Finny, Resmi R	Quality Factor and Eigen Frequency Analysis of Micromirrors	655
125.	223	Bhuvaneswari S, S.Manivannan, Manikot Anitha	Investigation of Shielding Effectiveness of Enclosures with Connected Accessory in Cables	659
126.	224	Amrit Krishna V S, Sadasivam S, Sreeram P R, Sreedevi K Menon	Analysis and Design of Direct Coupled Metamaterial Filters for Wireless Communication	663
127.	226	Anoop S, Nandagopal J L	Analysis of Disturbance Observer Based Position Control System	666
128.	227	Shabina Mol A, Sreedevi K Menon	Electromagnetically Coupled Band Pass Filter with Multiple Hairpin resonators	672
129.	228	Shunmugan S, Arockia Jansi Rani P	Encryption-then-Compression Techniques: A Survey	675
130.	231	Ravi Kishore Kodali, Snehashish Mandal	IoT Based Weather Station	680
131.	235	Adarsh Acharya, Iti Sharma	Bandwidth Scalable Coding For Vehicular Networks With Infrastructure Support	684
132.	236	Heltin Genitha C, Kavin Rajesh R	A Technique for Multi-Spectral Satellite Image Compression Using EZW Algorithm	689
133.	237	Sungeetha Dakshinamurthy, Vasumathi K Narayanan	Concurrent System and Its Significance to Web based system	695
134.	239	Devika K N, Ramesh Bhakthavatchalu	Programmable MISR modules for Logic BIST based VLSI testing	699
135.	242	Pandiyarajan A, Rajvikram M, Sivakumar T, Latha S	Electric Arc Furnace Voltage flicker alleviation by Unified Power Quality Conditioner using PSCAD/EMTDC	704
136.	243	Rupali Jain, Vijay Kumar Sharma, Saroj Hiranwal	Reduce Mean Magnitude Relative Error in Software Cost Estimation by HOD-COCOMO Algorithm	708

Sl.No	ICCICCT ID	Authors	Title	Page No.
137.	244	Rajvikram M, Renuga P, Swathisriranjani M	Fuzzy Based MPPT Controller's Role in Extraction Of Maximum Power In Wind Energy Conversion System	713
138.	245	Akhil V M, Jobin Varghese, Rajendrakumar P K, Sivanandan K S	Artificial neural network based study of torque at knee during sit to stand and back to sit movements	720
139.	246	Jiya A Sam, Aswathi K Nair	Analysis And Implementation Of Channel Estimation In OFDM System Using Pilot Symbols	725
140.	247	Reshma Chandran, Ramesh Bhakthavatchalu, Pradeep Kumar P	An FPGA based Low Cost Receiver for Ultrasonic Anemometer	729
141.	248	Pooja Chandran, Ramesh Bhakthavatchalu, Pradeep Kumar P	Time of Flight Measurement System For an Ultrasonic Anemometer	734
142.	250	Dinu A J, Ganesan R, Abraham Alem Kebedeb, Balaji Veerasamy	Performance Analysis and Comparison of Medical Image Compression Techniques	738
143.	251	Bhuvaneswari N, Ramesh L, Radha Ramakrishnan	Indian Railways Carbon Emission Reduction and Energy Performance	746
144.	252	Rajesh Prabha N, Edwin Raja Dhas J	Neuro Fuzzy Modeling and Prediction of Wear rate in Composite Manufacturing	750
145.	253	Edwin Raja Dhas J, Pradeep P, Gladson D, Dinesh R	Finite Element Analysis on Tensile Property of the Developed Natural FRP Composite	754
146.	254	Jyoti, Abhishek Arya, Arunachalam P, Bhuvaneswari N, Awanish Kumar, Ramesh L, Ganesan V, Hudson Egbert	Review on Industrial Audit and Energy Saving Recommendation in Aluminium Industry	758
147.	255	Abhishek Arya, Jyoti, Shailesh, Nity, Mustupha, Pratap, Shubham, Vineet, Bhuvaneswari, Ramesh L, Sheeba Percis	An Action Plan for Reducing Power Wastage in Technical University	765

Sl.No	ICCICT ID	Authors	Title	Page No.
148.	256	Shanavas S, Edwin Raja Dhas J	ANFIS Modeling of Friction stir Weld parameters	772
149.	259	Rajasekaran S, Sundari G	Design and Implementation of Non-Linear Oscillator circuit using Nanoelectronic Devices	778
150.	260	Sivakumar Pothan, Nandagopal J L	Autonomous Treaded Multiple Maneuverable Rover	782
151.	262	Arumuga Maria Devi T, Mebin Jose V I, Kumar Parasuraman	A Novel Approach for Automatic Detection of Non Small Cell Lung Carcinoma in CT Images	788
152.	263	Puneet Singh, Gaurav Soni	Performance Analysis of WCDMA Link Using QAM & QPSK Based on VST 5644R & LabVIEW 2012	793
153.	264	Gaurav Soni,	Experimental Analysis and Investigation of WCDMA Link Using Vector Signal Transceiver (VST) 5644R & LabVIEW 2012	797
154.	265	Gaurav Soni, Gaurav Megh	Experimental Investigation of Spectrum Sensing for LTE Frequency Band based on USRP 2920/VST 5644	801
155.	300	Sugadev M, Logashanmugam E	A Compact multiple slot Microstrip Antenna for Modern Mobile Communications	805
156.	321	Raghunathan P, Logashanmugam E	Design and Testing of Electromagnetic Actuator used in Axial Active Magnetic Bearing	809
157.	332	Ganesan Ramu, Abraham Alem Kebede, Tafera Mekonen, HenokAyele	Performance Analysis of Power Quality Impact of Adama-One Wind Farm in Ethiopia	813