2020 International Conference on **Computer Communication and Informatics (ICCCI 2020)**

Coimbatore, India 22 – 24 January 2020



IEEE Catalog Number:

CFP2008R-POD **ISBN**: 978-1-7281-4515-0

Copyright © 2020 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:
 CFP2008R-POD

 ISBN (Print-On-Demand):
 978-1-7281-4515-0

 ISBN (Online):
 978-1-7281-4514-3

ISSN: 2329-7190

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



S.No.	Paper ID	Title of the Paper	Page No.
1.	EC835	A brief Review on Techniques used for Breast Cancer Detection using Antennas Bagade Shilpa, A.Benjamin, N. Arun Vignesh, N Kumareshan	1
2.	CS920	A Comparative Study of Block-Based Copy-Move Forgery Detection Techniques Tawheed Jan Shah and M. Tariq Banday	4
3.	CS701	A Comparative Study of Semantic Search Systems Chetana Gavankar, Taniya Bhosale, DhanashreeGunda, Anindita Chavan and Shafa Hassan	10
4.	CS1019	A Comprehensive Nomenclature Of RFID Localization R.D.Balaji, R.Malathi, Mohana Priya and K.E.Kannammal	16
5.	EC761	A Novel and Smart IoT System for Real Time Agriculture Applications with IaaS Cloud Computing Lakshmi Narayana Thalluri, K Rama Rao, P Bose Babu, K Appala Raju, S R Sastry Kalavakolanu	25
6.	EE977	A Novel Approach of Congestion Management based IEEE 30 Bus using Particle Swarm Optimization Technique Rajasekhar Vatambeti and P.K.Dhal	31
7.	CS686	A Novel Approach to Steganography using Pixel-based Algorithm in Image Hiding Jawwad A R. Kazi, Gunjan N. Kiratkar, Sonali S. Ghogale and Atiya R. Kazi	36
8.	EC775	A Smart Public Transportation System for Reliable and Hassle Free Conveyance in Sustainable Smart Cities B. Vinoth Kumar, Akash Ravishankar, A. Karan, K. Vishal and J. Aanandha Praseeth Kumar	42
9.	CS711	A Statistical Approach to Classify the Leukemia Patients from Generic Gene Features Efthakhar Ul Alam, ShovanBanik and Linkon Chowdhury	48
10.	CS978	A survey on Deep Learning Techniques for Human Action Recognition S.Karthickkumar and K.Kumar	54
11.	CS1069	A Survey on RDBMS and NoSQL Databases MySQL vs MongoDB SowndaryaPalanisamy and P. SuvithaVani	60
12.	EE976	A Technological Review on Multilevel Matrix Converter for Wind Power Generation System Monica Verdia, Shivani Johari, Vinod Kumar and L.Gidwani	67
13.	EE884	Adjustable Step-Size LMS based IRP Method for Active Power Filter R. Chander, E.V Sekhar rao and E. Vidhya Sagar	77

14.	CS853	An Accurate Prediction of MPG (Miles Per Gallon) using Linear Regression Model of Machine Learning Varun Shirbhayye and Deepesh Kurmi	83
15.	CS907	An Efficient Approach to Identify Selfish Node in MANET M.MohamedMusthafa, K.Vanitha, A.M.J.MD.Zubair Rahman, K.Anitha	88
16.	CS781	An Efficient Fake News Detector Smita Vinit Bhoir	91
17.	CS690	An Improved Demand Forecasting with Limited Historical Sales Data Rajasekhar Kalla and Abbaiah. R	96
18.	CS1035	An Optimized Sucddes to Control Access in Cloud P Jhansi Rani and M. Akkalakshmi	101
19.	EC935	Analysis of Filter Bank Multi Carrier Modulation Avila Jayapalan, Prem Savarinathan, Pradeepa Mahalingam, Ajay Dev.N.S, Akash Natraj.S	106
20.	CS717	Analyzing Different Domains using Data Mining Techniques Nelshan Mandan, Kanika Agrawal and Sunny Kumar	110
21.	EC766	Ant Colony Optimization Based Partition Model for VLSI Physical Design Pavithra Guru R and Vaithianathan V	116
22.	EC991	Arduino Based traffic congestion control with automatic signal clearance for emergency vehicles and Stolen Vehicle Detection N.Prakash, E.Udayakumarand N.Kumareshan	121
23.	EC1029	Automated Flow Management Device for Oman Water Networking System J. Arthur Davis, Angelin Gladys Jesudoss, Naveen Watson and Balaji Dhanasekaran	127
24.	EE1099	Automatic gate control for highly secure organization using RFID and GSM Technology N.Prabhakaran, Srivaishnavi V, Srinaya V, Preethi T, Aishwarya S and Dinesh M	133
25.	EC847	Automatic Person Count Indication System using IoT in a Hotel Infrastructure Vishwarup S, Madhu Riswanth K, Tanveer Ahmad H, R. Santhiya Devi, Vaishnavi Kumar, K. Thenmozhi, AmirtharajanRengarajan and PadmapriyaPraveenkumar	137
26.	EC851	Automatic Waste Segregation and Management Ajay V P, Bradeep Kumar M, Kishanth A, Vaishnavi Kumar, R. Santhiya Devi, AmirtharajanRengarajan, K. Thenmozhi, and PadmapriyaPraveenkumar	141
27.	CS688	Avoiding Phishing Attack on Online Voting System using Visual Cryptography Saloni Sunil Rane, Ketaki AdwaitPhansalkar, Mayuri Yashvant Shinde and Atiya Kazi	146

28.	CS830	Biomedical Lung Image Segmentation using CNN Amogh Babu K A and Vinay S	150
29.	CS778	Blockchain based Security System for the Devices in Internet of Things T.Sureshkumar and M.Vijayakumar	154
30.	CS981	BRUKID Sort – A New Sorting Approach using Multi-Dimensional Array Gopi Manoj Vuyyuru, Fathima Fariyal and TejaVeerendraMarupudi	158
31.	EC729	Chaotic based Adaptive Inter Planar Confusion for Color Images Nithya Chidambaram, Avija Sharan Reddy, KetineniTejaswini, Keertipati Vishal Varma, Kona Sai Harshavardhan Reddy, AmirtharajanRengarajan	164
32.	CS1025	Classification of Diabetes Patients using Kernel based Support Vector Machines G. A. Pethunachiyar	168
33.	CS930	Cloud computing security issues & challenges: A Review Avijit Mondal, Subrata Paul, Radha Tamal Goswami and Sayan Nath	172
34.	CS970	Color based Trends Prediction through Social Profile Scraping Puja Mondal, Anirban Mitra, Subhankar Guha and Subrata Paul	177
35.	CS691	Containerized Architecture for Edge Computing in Smart Home Nitu Gupta, KatpagavalliAnantharaj and Karthikeyan Subramani.	183
36.	EC725	Customized BC-CSRR Loaded Patch Antenna for Satellite Communication Soundarya. G and Gunavathi. N	191
37.	CS698	Data Analysis on Myocardial Infarction with the help of Machine Learning Algorithms considering Distinctive or Non-Distinctive Features SalsavilKayyum, Jonayet Miah, Anwar Shadaab, Md. Minhazul Islam, Majharul Islam, Shah Ashisul, Abed Nipun, Md. Abdur Rakib Rahat and Faiz Al Faisal	195
38.	CS903	Deep Learning Model for Identifying Snakes by using Snakes' Bite Marks R. Kamalraj	202
39.	CS806	Deep Learning Techniques for Implementation of Chatbots Satyendra Praneel Reddy Karri and B.Santhosh Kumar	206
40.	CS932	Dental X-ray Image Enhancement using Evolutionary Algorithms Shreyas Simu and Mayuri Naik	211
41.	CS901	Design of Neurocane for Blind Community Using IoT Device Karkuzhali S, Aditya Mishra, Ajay M S and P.Chinnasamy	216
42.	EC689	Design of Rectangular MPA with and without Split Ring Resonators for WLAN Application A. Sureka Selas and K. Ayyappan	223

43.	EC696	Designing of Buck Regulator with Double-Gate MOSFET: A Circuit Perspective Simone Leeuw and Viranjay M. Srivastava	228
44.	EC913	Detection and Classification of Fruit Diseases using Image Processing & Cloud Computing R.Ramya, P.Kumar, K.Sivanandam, M.Babykala	233
45.	CS1024	Drift Compensation for Electronic Nose by Multiple Classifiers System with Genetic Algorithm Optimized Feature Subset Abhisek Manna	239
46.	CS1078	Dynamic Changes by Big Data in Health Care Sathya Balaji and V.Prasathkumar	246
47.	CS1050	Dynamic Contol Structure in Gameplay Mechanism as a Solution to Gaming Addiction Tartarus – Conceptual Approach using a simple FSM Pattern Syed Sohaib Uddin, Mohammed Umar and Krishna Keerti Chennam	250
48.	CS927	Enhanced Detection of Internet Water Army based on Super network Theory D. Hamithra Jothi and T.Rajasenbagam	258
49.	CS1028	Enhanced Distributed Energy Efficient Clustering Protocol Komalpreet Kaur and Er. Shivani Sharma	264
50.	CS905	Establishing a Zero Trust Strategy in Cloud Computing Environment Saima Mehraj and M. Tariq Banday	269
51.	CS861	Estimation of Prediction for Getting Heart Disease using Logistic Regression Model of Machine Learning Montu Saw, Tarun Saxena, Sanjana Kaithwas, Rahul Yadav and Nidhi Lal	275
52.	CS940	Feature Extraction for Diseased Leaf Image Classification using Machine Learning N. Nandhini and R. Bhavani	280
53.	EC816	Fridrich Structure Implementation on Gray ScaleImages in an Embedded FPGA Platform Mohan Sai, Sai Bhanuj, Anudeep Betha, Vaishnavi Kumar, R. Santhiya Devi, Amirtharajan Rengarajan, K. Thenmozhi, and Padmapriya Praveenkumar	284
54.	EE1034	Generation Fuel Cost and Loss Minimization Using Salp Swarm Algorithm Based Optimal Power Flow Mohammad Zohrul Islam, Noor Izzri Abdul Wahab, Veerapandiyan Veerasamy, Nashiren Farzilah Mailah, Hashim Hizam, Mohamad Nasrun Mohd Nasir and Arangarajan Vinayagam	290
55.	CS697	Geometric Constraints Based Selective Segmentation for Vector Valued Images B R Kapuriya, Debasish Pradhan and Reena Sharma	296

56.	CS840	Glaucoma Diagnosis based on both Hidden Features and Domain Knowledge through Deep Learning Models S.Karkuzhali, Aditya Mishra, M.S. Ajay, S. Wilson Prakash	301
57.	CS790	Graphics Separation System for Printed Document Images Yanglem Loijing Khomba Khuman, H. Mamata Devi, T. Romen Singh and N. Ajith Singh	310
58.	EE1000	Grid Interconnection of Renewable Energy Source with T-type Inverter based DSTATCOM D. Suresh, T. Jayanth Kumar and S.P. Singh	314
59.	EC706	IoT based Healthcare Monitoring and Intravenous Flow Control Preethi S, Akshaya A, Haripriya Seshadri, Vaishnavi Kumar, R. Santhiya Devi, Amirtharajan Rengarajan, K. Thenmozhi, and Padmapriya Praveenkumar	319
60.	CS925	Implementation of Image Encryption based on Chaos-IWT – An Image security Aashiq Banu S, Noorul Nilofer A, Harini M, Dhivya R and Amirtharajan Rengarajan	325
61.	EC704	Intelligent Braking System Varanasi Venkata Naga Srivani, R. Vandana, R. Santhiya Devi, Vaishnavi Kumar, Amirtharajan Rengarajan, K. Thenmozhi, and Padmapriya Praveenkumar	329
62.	EC934	Intelligent Human Presence Detection and Identification Syam Sidhardhan, Debabrata Das and Kyungmin Park	333
63.	CS742	Interference of Cyber Endanger using Support Vector Machine R.Kavitha, K.Malathi and Liza.M.Kunjachen	339
64.	CS926	Investigation of Breast Tumor Detection UsingMicrowave Imaging Technique Prince Priya Malla1, Sudhakar Sahu and Sidheswar Routray	343
65.	CS871	Investigation on Privacy Preserving using K-Anonymity Techniques B.Santhosh Kumar, N.Sathya, T.Daniya and R.Cristin	347
66.	CS1055	Investigation of Speech Recognition System and its Performance M.Banu priya and E.Kannamal	354
67.	EC937	IoT based RF Antenna- Radiation Pattern Control inMobile Communication Systems A.Jothivelu and Sishaj P Simon	358
68.	CS1016	IoT Based Smart Farming C.Mageshkumar and Sugunamuki.K.R	365
69.	EC947	IoT Based Smart Wearable for Air Quality Monitoring Ravi Kishore Kodali, Sasweth C. Rajanarayanan and Lakshmi Boppana	371

70.	EC848	IoT based Waste Management for Smart Cities Padmakshi Venkateswara Rao, Pathan Mahammed Abdul Azeez, Sai Sasank Peri, Vaishnavi Kumar, R. Santhiya Devi, Amirtharajan Rengarajan, K. Thenmozhi, and Padmapriya Praveenkumar	376
71.	EC708	IoT with Light Weight Crypto System for Primary Health Centers to Minimize Fetus Death, Birth Defects and Premature Delivery in Solamadevi Village Trichy District Sai Bhanuj T, Anudeep BDJ, Mohan Sai N, R. Santhiya Devi, Vaishnavi Kumar K. Thenmozhi, Rengarajan Amirtharajan, and Padmapriya Praveenkumar	381
72.	CS943	Issues and Concepts of Graph Database and a Comparative Analysis on List of Graph Database Tools Anupam Das, Anirban Mitra, Surendra Nath Bhagat and Subrata Paul	385
73.	CS748	Keyword Search with Two-Side Verification in Encrypted Data using Blockchain Priya N and Ponnavaikko M	391
74.	CS679	Legal Case Summarization: An Application for Text Summarization Kanika Agrawal	396
75.	EE897	Loss Minimization based Distributed Generator Placement at Radial Distributed System using Hybrid Optimization Technique Vempalle Rafi and P.K.Dhal	402
76.	EC779	Metastability Influenced PUF for Cryptographic Key Generation: A FPGA Approach Poorna Sai Meka, Sivaraman R, Amirtharajan Rengarajan, Sundararaman Rajagopalan	408
77.	EE814	Methodologies for Optimal Sizing of Battery Energy Storage in Microgrids – A Comprehensive Review S. Jayashree and K.Malarvizhi	414
78.	EE703	Modelling of the Twin Rotor MIMO System (TRMS) Using the First Principles Approach David Mohammed Ezekiel, Ravi Samikannu, Matsebe Oduetse	419
79.	CS716	Movie Success Prediction using Ensemble Classifier Athira M D and Lakshmi K S	426
80.	EC985	Non-destructive Approach to Detect Pesticides in Fruits and Vegetables using IoT Technology R. Kanmani, R. Maheswar, A. Sureshkumar A.Mugilan and V.Praveena	431
81.	EC721	Novel Secure Multipurpose Information Service and Management System with the help of Internet of Things Tata Jagannadha Swamy, G. Pavan Krishna, T. N. Murthy	439
82.	CS1071	Number Plate Reorganization using Image Processing and machine learning Approaches: A Review Anurag Kumar and Dipti Verma	445

83.	CS1012	Optimization of Secret Key using Cuckoo Search Algorithm for Ensuring Data Integrity in TPA S.Raja shree, A.Chilambu Chelvan and M.Rajesh	449
84.	CS982	Outlier Application Level based Intrusion Detection and Prevention in Wireless Network R.B.Benisha, S.Raja Ratna, and Arokia Jesu Prabhu L	454
85.	CS1064	An Evaluation on Gas Spillage Detection and Controlling Framework in Smart Home A.Mahalakshmi and S.Yogalakshmi	464
86.	CS1132	Privacy Enabled Duplication Free Cloud Environment with Protective Crypto Services R.Nandhini and S.V.Evangelin Sonia	473
87.	CS1133	Intelligent and Convolutional-Neural-Network based Smart Hospital and Patient Scheduling System K.Rajakumari and M.Madhunisha	477
88.	CS1135	Food Image Recognition using CNN Srigurulekha. K and V.Ramachandran	482
89.	CS1138	Survey on Security of IoT S.Vinitha sri and A.Mohanapriya	489
90.	CS953	PDD: Predictive Diabetes Diagnosis using Datamining Algorithms M. S. Geetha Devasena, R. Kingsy Grace and G. Gopu	497
91.	CS1054	Performance Analysis of Heart Disease Classification for Computer Diagnosis System <i>K.Sathya and R.Karthiban</i>	501
92.	EC951	Performance Analysis of Radix-2/3/5 Decompositions in Fixed Point DIT-FFT Algorithms Y. Jyotsna, N. Nithiyameenatchi, E. Konguvel, M. Kannan	507
93.	EE1036	Performance Investigation Using Co-Simulation Approach of Converters S.Dhamodharan, Dr.K.Sebasthirani	513
94.	CS973	Phishing Website Classification and Detection using Machine Learning <i>Jitendra Kumar, A. Santhanavijayan, B. Janet, Balaji Rajendran and B. S. Bindhumadhava</i>	518
95.	CS967	Predictive Analysis of Student Stress Level using Naïve Bayesian Classification Algorithm S. Monisha, R.Meera Vijay Swaminath.R and Arun Raj L	524
96.	CS1006	Privacy Preserving Data Aggregation in Fog Computing using Homomorphic Encryption: An Analysis R.Sendhiland A.Amuthan	531
97.	EE912	Provident Headlamps Technology for Electric Vehicles Vinay M. Mulay, Joydeep Sarkar, Atharv Jadhav and Sarvesh Bhure	536
98.	CS718	Red Wine Quality Prediction using Machine Learning Techniques Sunny Kumar, Kanika Agrawal and Nelshan Mandan	541

99.	EC709	Reversible Hiding with Quick Response Code – A Responsible Security Anudeep BDJ, Mohan Sai N, Sai Bhanuj T, R. Santhiya Devi, Vaishnavi Kumar, K. Thenmozhi, Amirtharajan Rengarajan and Padmapriya Praveenkumar	547
100.	CS980	Rule-based Mining of Juvenile Delinquency Suresh Babu Changalasetty, Ahmed Said Badawy, Abdelmoty M.Ahmed, Wade Ghribi, Harun Bangali, Lalitha Saroja Thota Koppula Shireesha, Alla Sravani and Maroju Shiva Prasad	552
101.	CS998	Secured Payment Gateway for Authorizing E-Commerce Websites and Transactions using Machine Learning Algorithm PonSangeetha Jayaraman, Ramya Sundaram, ChristalAntony.V and Mythili.k	556
102.	CS950	Security Challenges and Counter Measures in Internet of Things K. S.Niraja and Sabbineni Srinivasa Rao	561
103.	CS707	Sentiment Analysis on Customer Reviews using Convolutional Neural Network Srikanth Tammina and Sunil Annareddy	564
104.	CS902	Sentiment Analysis on Motor Vehicles Amendment Act, 2019 an Initiative by Government of India to follow Traffic Rule N. Ajith Singh	570
105.	CS1058	Sentimental Analysis on Voice using AWS Comprehend G. Satyanarayana, Bhuvana J and Balamurugan M	575
106.	CS900	Smart Health Predicting System Using K-Means Algorithm Harshitha Naidu Ravuvar, Haritha Goda, Sumathi R and P.Chinnasamy	579
107.	EC946	Smart Indoor Air Pollution Monitoring Station Ravi Kishore Kodali, Saisri Pathuri and Sasweth C. Rajnarayanan	583
108.	EC971	Sonic Fire Fighting System Sonali Jain, Manan Luthra, Shagun Sharma and Mehtab Fatima	588
109.	CS933	Survey on applying GAN for Anomaly Detection B. Joyce Beula Rani and L.Sumathi	593
110.	CS1037	Survey on Segmentation and Classification Methods for Diagnosis of Glaucoma M.Shanmuga Eswari and S.Karkuzhali	598
111.	CS944	Survey on techniques for Authorized Deduplication of Encrypted data in Cloud Milind B. Waghmare and Suhasini V. Padwekar	604
112.	CS929	Survey Paper on Sentiment Analysis for Tourist Reviews K.A. Waghmare and Sheetal K. Bhala	609
113.	EC694	Third Order High Pass Filter with Double-Gate MOSFET: A Circuit Perspective Sashin Ramdhani and Viranjay M. Srivastava	613

114.	EE999	Three-Level Active Neutral Point Clamped DSTATCOM with Interval Type-2 Fuzzy Logic Controller D. Suresh, T. Jayanth Kumar and S.P. Singh	619
115.	EC780	Transform Domain Influenced Variable Bit - Variable Pixel Medical Image Watermarking Scheme Sai Dileep Chowdary. N, R. Sivaraman, A. Sridevi, Sundararaman Rajagopalan and Amirtharajan Rengarajan	624
116.	EC674	Triple Broadband Rectangular Dielectric Resonator Antenna with Triple Stub Microstrip Feeding <i>E. Vinodha, S. Raghavan</i>	629
117.	CS986	Understanding the Need for Machine Learning as a Solution for Financial Analysis of IT Industries Kishan Kesari Gupta, Abhinav Anil, Abhishek Anand and Parag Ravikant Kaveri	633
118.	CS695	Variable Rate Video Compression using a Hybrid Recurrent Convolutional Learning Framework Aishwarya Jadhav	638
119.	EC699	Wireless Intra - Aircraft Communication System Peter Reji, Shobha K.R, Arun Kumar, Devraj Sheshu E, S Karthik and SamyukthaSena I	644
120.	CS833	Blockchain Technology: Challenges and Security issues in Consensus algorithm S. Velliangiri, P. Karthikeyan, D.Basawaraj and S. Alagumuthukrishnan	649
121.	EC984	Graph Partitioning approach for Segmentation of Banding Pattern of G-band Metaphase Human Chromosomes Nirmala Madian, Somasundaram Devaraj, S.T. Suganthi, Brightlin B C	657
122.	CS1051	Customized Particle Swarm Optimization Algorithm for Frequent Itemset Mining N S Sukanya and P Ranjit Jeba Thangaiah	662
123.	CS1052	A Quality Representation of Tumor in Breast using Hybrid Model Watershed Transform and Markov Random Fields <i>B.Sridhar</i>	666
124.	EC1079	A metamaterial based I-shaped frequency selective surface for band pass and band stop applications <i>Jyotsna Sahai and Garima Tiwari</i>	670
125.	EC1082	Multiband microstrip Patch Antenna with Closed C-shape Conducting Strip Shivani Chourasia and Prashant Kumar Jain	673
126.	EC1126	An Article on Prediction Algorithm in Cognitive Radio Networks using Spectrum Sensing Mona Verma and Amit Baghel	676

127.	CS1127	Enhanced Mechanism for Efficient Storage, Retrieval and De-Duplication in Cloud <i>k.Nandhini and L.Arokia Jepu Prabhu</i>	683
128.	EC1129	Detection of Goblet Cells to Diagnose Barrett's Esophagus using Contourlet Transform and GLCM approach P.Anandan, Gangisetty Tejaswi, Sanivarupu Vijayalakshmi, Jammula Srilakshmi and Kunapareddy Meghana	692
129.	EE1063	A Simulation on Compensation of Harmonic Current to Improve Power Quality using PSO P.Divya Banu and A.Kalaiarasi	697
130.	EE1096	Design and Development of Smart Scram Device for Effective Ethanol Remote Bio-Monitoring Suganya.P, Nilofar.S, Keerthiga.V and A.Kalaiarasi	701
131.	EE1097	Identification of Plant Species by Embedded Technology Using MatLab S.Ramya and Jeevitha.R	707
132.	EC1049	Efficient Operand Divided Hybrid Adder for Error Tolerant Applications S.Savitha and R.Ramya	712
133.	EE1017	Analysis of Double space time diversity-CDMA system for frequency-selective channel S. Arivoli, P.T. Vasanth Raj, Vijayaraj. A, Gowrishankar Senthilkumar	718
134.	EE1020	Classification of Human Emotion Using EP <i>Arivoli S,Vasanth Raj P T, Harishkumar</i>	724
135.	CS1007	Machine Learning Algorithms to Empower Indian Women Entrepreneur in E-commerce Clothing P.Hamsagayathri and K.Rajakumari	731
136.	CS1139	An Ensemble Feature Selection Method for Prediction of CKD <i>Manonmani.M and Sarojini Balakrishnan</i>	736
137.	CS519	Scattering Watermark on DICOM Images Vinoth Raj, Aashiq Banu S, Siva Janakiraman, Sundararaman Rajagopalan and Rengarajan Amirtharajan	742
138.	EE607	Assessment of mismatching in series and parallel connection of the PV modules of different technologies and electrical parameters Sarat Kumar Sahoo, Mubarak Shah, Nisar Ahmad Dawlatzai, Rini Ann Jerin Amalorpavaraj	746