

2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS 2022)

**Chennai, India
8-9 December 2022**

Pages 1-633



**IEEE Catalog Number: CFP22O30-POD
ISBN: 978-1-6654-6276-1**

**Copyright © 2022 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:	CFP22O30-POD
ISBN (Print-On-Demand):	978-1-6654-6276-1
ISBN (Online):	978-1-6654-6275-4

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

TABLE OF CONTENTS

DC Charge Accumulation Characteristics of 11 kV Polymeric Insulator.....	1
<i>Noorul Haque M, Royyala Avinash, Sunitha K</i>	
Power Control of Solar Grid-Tie Inverter Using Bidirectional DC-DC Converter	5
<i>Pradeep Katta, Deepthi Joseph, Mohammed Ovaiz. A, Hashitha. S, Srilekha. P</i>	
Atmospheric Air Condensation for Irrigation by the Application of Peltier Effect Using Solar Energy	9
<i>C. Jeeva, GS Chaurasia, T. Porselvi, A. Sanjeevi Gandhi, G. Subiksa, M. Dhivyashri</i>	
IoT Based Water Showering Mechanism in Agriculture	14
<i>B Praveena, S. Vijayalakshmi, K. R. Chairma Lakshmi</i>	
RSSI: Overboard Localization System.....	17
<i>Swagata Sarkar, G R Shrinithi, M Hemanth, S C Sudharsan, Sumesh Chakkavarthy</i>	
Overview of Autonomous Marine Surveillance Device.....	22
<i>Dhivya Balaje, Vibha V, Harish Pichumani, Swagata Sarkar</i>	
Exploration and Aspects on Augmented Reality	25
<i>Swagata Sarkar, Adhish S, Adarsh V, Divakar K</i>	
Comparison and Analysis of Lift Converters Using Incremental Conductance MPPT for Electric Vehicle Applications.....	31
<i>M. Latha Devi, M. Ramesh Babu</i>	
Modeling of Grid Connected Hybrid System for Non Linear Load	37
<i>Anjana Ethirajan, R. Ramaprabha</i>	
Emoji Anticipation and Prediction Using Deep Neural Network Model.....	41
<i>J. Shobana, S. Amudha, Siva Kumar A</i>	
A Novel Technique for Automatic Blackboard Cleaning System.....	49
<i>V Priyadarshini, M. Vaishnavi, K. Thirupura Sundari, A Jeyadharshini, P Mahalakshmi, R Vaitheswari</i>	
Unmanned Aerial Vehicle for Disaster Response and Relief Operations: Helping Hands from Air	53
<i>Avinash Verma, Vibhanshu Kaushik, R. Dheivanai</i>	
Lithium-Ion Battery Management System: A Review.....	59
<i>B. Devi, V. Suresh Kumar</i>	
Smart Blind Cane for Blind and Deaf People with a Safety Trigger	65
<i>G Sudha, S Saranya, Sankari Subbiah, M Archana, S Sharmila, K Nandhini</i>	
Automatic Optimized Voice Based Gender Identification for Speech Recognition	69
<i>M. Nalini, R. Gayathiri, Abirami. V, Aishwarya Lakshmi. G, Harini. D</i>	
Controller Optimization for a Single Tank Liquid Level System.....	73
<i>K. Thirupura Sundari, S. Durgadevi, S. Sruthi</i>	

Aiderbot: DTMF Based Medical Robot	78
<i>Shabana Parveen M, Yashwanth D, G Prasanth, Vasundharadevi D, Dhanush Kumar V, Shriranjani Jayanthan, Abinaya R</i>	
Design and Investigation of Automatic Pest Detection and Pesticide Spraying Device.....	85
<i>S. Ramanathan, I. Vimal Kannan, Kalyan Pichumani, S. Rohith Krishnan, M. Mukhunth, A. Vishnu</i>	
Design and Development of Pipe Inspection Snake Locomotion Robot.....	91
<i>S Deepa Nivethika, T Nivethetha, P Priyadharshini, V T Nithyasri, M Senthilpandian, R Sivaprasad</i>	
Harmonic Elimination with Multilevel Inverter Based Hybrid Filter Using Artificial Intelligence Approach	96
<i>Pranita Chavan, B. R. Patil</i>	
Review on Switching Band Antenna Reconfigurability	102
<i>Boyapati Venkata Sai Ajitha, Avisetti Satya Teja Aditya Bharg, Alekhya Bandi, Giridhar Kakarala</i>	
Analysis of Wearable Antenna Using Metamaterial for Wideband Applications	106
<i>Bandi Alekya, Neelaveni Ammal Murugan, Boddapati Taraka Phani Madhav</i>	
Automated Classification of MRI Brain Images	111
<i>C N Savithri, R Carol Praveen, N Lavanya Devi, Varunapriyan K</i>	
Survey Based on Gestational Monitoring and Management System Using Deep Learning Algorithm	117
<i>Nandini. K, K. Rahimunnisa</i>	
Sanitization Using Autonomous Drone	123
<i>Gayathiri. R, Gaudham P, Rakesh S, Pradeep M, Saran Raj D, Sudharshan B</i>	
Augmented Reality-Based Restaurants	128
<i>K. Prathibanandhi, R. Janani, M. Shruthi, R. Sivaprasad, C. Yaashuwanth, V. Malini</i>	
Smart Lane Detection Using Open CV and Image Processing.....	132
<i>K Suresh, A Sanjeevi Gandhi, Soumya M, Dakshina R</i>	
Smart Assistive Stick for Visually Impaired Person with Image Recognition.....	136
<i>K. Suresh, Paulina. J, Jeeva. C, Rajkumar. K, Kalaiyani. K, Amsavarthini. R</i>	
Comparative Analysis of Different Single Stage PFC Integrated Half Bridge LLC Converter for LED Lighting	141
<i>Sridhar Makkapati, Seyezhai Ramalingam</i>	
A Survey on Ultra Wideband High Directivity Low Profile Antenna	146
<i>Shilpa V, Sasmita Mohapatra</i>	
ALow Cost QuArm Band for Controlling Contagious Diseases	150
<i>Banu Priya Prathaban, M. Jenath, Subash Rajendran, S. Surya</i>	
A Conceptual Analysis on Lithium Ion Batteries in the Field of Energy with Its Limitation and Future Perspective	157
<i>Keren Persis P, R. Geetha</i>	

Development of Truly Intelligent Autonomous Agents Based on Classical AI Using Complex Representations	163
<i>P. Ashok, T. Prabahar Godwin James, G. Malathi, A. Kavinilavu, L. Sharmila</i>	
Stampede Control System	169
<i>Prabhu D, Haribabu N, Abinaya G, Divyadharishini T</i>	
Video Based Forest Fire and Smoke Detection Using YoLo and CNN	176
<i>Sayali. Madkar, Dipti. Y. Sakhare, Komal. A. Phutane, Anagha. P. Haral, Kirti. B. Nikam, S. Tharunyha</i>	
Fault Diagnosis in Wireless Sensor Network	181
<i>S. Hemavathi, B. Latha</i>	
Design and Analysis of Fifteen Level Inverter for Renewable Applications.....	185
<i>L. Kurinjimalar, S. Pooja, R. Sivaprasad, B. Meenakshi, J. Shalini Priya, T. Porselvi</i>	
Investigation of Vanadium Penta-Oxide Based Insulate Gate BipolarTransistors	190
<i>R. Arulmozhiyal, M. Murali, Thirumalini P</i>	
A Review on Electric Vehicle Adaptation: Challenges, Standards and Policy Options.....	193
<i>C Jeeva, T. Porselvi, D. Karthikeyan, K. Suresh, Krithika B, Devadathan S</i>	
A Study of Mobile Edge Computing in AR/VR Applications	198
<i>S. Anitha Jebamani, S. Godfrey Winster</i>	
Vaelan Smart Irrigation System Using Iot.....	208
<i>K Latha, D Srinivasan, KM Nifhash, V Lokesh, D Kavitha, S Hemavathi</i>	
Optimal Energy Efficiency Techniques and Security Enhancement in Wireless Sensor Network Using Machine Learning	213
<i>Manikandan S, Suganthi S, Gayathiri R</i>	
Sub 6 G Hz Tx-Rx Microstrip Antenna for 5 G Applications	218
<i>B. Rajalakshmi, M. Jenath, V. Subashini, J. Alsamath</i>	
Broadband and Wide Beam Width Orthogonal Dipole Antenna for Wireless Applications	223
<i>M. Jenath Sathikbasha, R Srivel, P. Banupriya, K. Gopi</i>	
Development Testing and Validation of Laboratory Model for Performance Analysis of Transmission Line	227
<i>Naziya Thabasum Nimagal, Siram Raviteja, Gautam Mecond, Manitha P V, K. Deepa, V. Sailaja</i>	
Onsite Maintenance Identification of Loose Connections in Battery Set and Testing Connected with Fire Diesel Pump Generator	232
<i>B. Rubini, S. Pradeep Kumar, G. Sathish Kumar, D. Tharunkumar</i>	
Power Scavenging Using a Darrieus Type Vertical Axis Wind Turbine on Highways	238
<i>R Kothai, T Porselvi, A Sri Ari Priya, V Sandhiya, R Ajithasri</i>	
Voice Based Motile Video Surveillance System with ViolenceDetection	241
<i>J. Shalini Priya, S. Thennarasu, M. Hemalatha, M. Karthikeyan, B. Meenakshi, R. Sivaprasad</i>	
System for Prioritizing Covid-19 Patients Based on Certain Parameters	245
<i>S Hemavathi, Lohith Sumesh, R Sai Krishnan, K. Latha, K. Jayasakthi Velmurugan, D. Kavitha</i>	

Image Forgery Detection Using Machine Learning	249
<i>K. Latha, D. Kavitha, S. Hemavathi, K. Jayasakthi Velmurugan, Neathi. R</i>	
Comparative Study of Various Cloud Service Providers: A Review	254
<i>Anurag Choudhary, Pradeep Kumar Verma, Piyush Rai</i>	
Trackme - Smart Watch for Women Safety	262
<i>Sheebarachel, M. Sinthuja, C Buvana, S Srinithi</i>	
Heptagonal Fractal Antenna with Slit for Improved Efficiency	268
<i>V. Remya, M. Kanthimathi, G. C. Jagan</i>	
Laminated Busbar Optimization Concerning Physical Aspects, Materials, and Structural Modifications.....	273
<i>Aravind Venugopal, Femi Robert</i>	
A Decentralized Two-Stage Voltage Control Strategy for Non-Linear Load Connected Hybrid Microgrid.....	278
<i>Md. Ariful Islam, Ajay K. Sarkar</i>	
Distribution Grid Modelling and Particle Swarm Optimization for Electric Vehicles Flexibility.....	284
<i>Sairam Sampath Kumar, Alankrita Asthana, Avinash Katikireddy, Prodyumna Kumar Mohanta</i>	
Human Activity Recognition Using LSTM Network with Dropout Technique	292
<i>J. Godwin Ponsam, S. V. Juno Bella Gracia, G. Geetha, K. Nimala, Swetha Chepuri, Rithik S. Rajline</i>	
Modified Bridgeless Landsman Converter Fed EV Battery Charger Power Factor Improvement.....	296
<i>R. Sivaprasad, T. Mahalakshmi, B. Meenakshi, T. Porselvi, L Kurinjimalar, J. Rmanasa</i>	
Aegis Surtout.....	301
<i>Sivaprasad R, Shriranjani. J, Abinaya. R, K Prathiba Nandhi, B. Meenakshi, Shalinipriya J</i>	
Analysis and Hardware Implementation of a Single Inductor Dual Input Single Output DC-DC Converter for Microgrid Applications	306
<i>Tuhinanshu Mishra, Ravindra Kumar Singh</i>	
Interpretation and Analysis of Angular Framework	310
<i>G. Geetha, Monisha Mittal, K. Mohana Prasad, J. Godwin Ponsam</i>	
Automatic Air Pollution Monitoring and Speed Control in Vehicle Using Embedded IoT	316
<i>Gopi Kasinathan, Gomatheeshwari B, Banu Priya Prathaban, Jenath Sathikbasha M</i>	
Social Media Personal Event Notifier Using NLP and Deep Learning	320
<i>Pavithiran Ganeshkumar, Ashwin Kumar BR, Sharan Padmanabhan, Vetriselvi A</i>	
Medical Assistant App	325
<i>Hemavathi S, Sam Abhishek A C, Sai Kaushik J, Sai Deepak D, K. Latha, K. Jayasakthi Velmurugan</i>	
Power-Efficient Cluster Head Selection in Wireless Sensor Networks Using Whale and Seagull Algorithms.....	329
<i>P. Vinoth Kumar, K. Venkatesh</i>	
Roll Call Tracking System for Education Sectors Using Face Recognition System	334
<i>D. Prabhu, Dhivyadharshini K, Lokeshwari S, Pavithra Devi T</i>	

A Survey on Precision Agriculture Using Machine Learning	337
<i>D. Prabhu, Golda Dilip</i>	
Enhanced Object Detection with Deep Convolutional Neural Networks for Vehicle Detection	340
<i>Prasoon Bharat Mishra, Abdul Malik, M. Safa, G Saranya, D Arun</i>	
Automated Attendance System Based on Facial Recognition Using Adaboost Algorithm	347
<i>Harshil Sharma, Bhavay Mangla, M. Safa, G Saranya, D Arun</i>	
Intimation of Accident Zone Location.....	354
<i>Rajakumar. P, Mohan S, Gokul J, Janani E, Srimathi K, Pavithra P</i>	
Real-Time Communication System for Specially Abled with DL-CNN Based Approach Using Image Processing.....	358
<i>Nidumoli Gowthami Priya, Dadi Ravikumar, M. Safa, G. Saranya, D Arun</i>	
Emotion Recognition from Facial Expressions Using Deep Learning-CNN Model.....	366
<i>Husna Qasim, M. Safa, Harsh Tiwari, D Arun</i>	
Diagnosis of Covid-19 from Chest X-Ray Images Using Wavelet-Based Depth Wise Convolution Network.....	381
<i>Sai Tarun, Sai Rakesh, M. Safa, Saranya G, K Chakrapani</i>	
Doctor's Handwritten Prescription Recognition System in Multi-Language Using Deep Learning	387
<i>Pavithiran G, Sharan Padmanabhan, Nuvvuru Divya, Aswathy V, Irene Jerusha P, Chandar B</i>	
Effective Analysis of Human Cardiovascular Disease Via Ensemble Learning.....	392
<i>Swati Srivastava, Sanjana Solomon, P. Madhavan</i>	
An Analysis of COVID-19's Effects on Online Payments Using ANOVA	398
<i>G. Nirmala, M Jayasree, G Thirumurugan</i>	
Agent Based Pedagogy for Interactive E-Learning – A Survey.....	403
<i>Sameena Shaik, Sangeetha Komandur</i>	
Semantic Analysis of Food Ordering and Tasting Reviews in Web Pages Using Deep Convolution Neural Networks.....	408
<i>S. Padmanayaki, Arshia Arjumand Banu, Shazia Ali, Shabana Parveen, S. Nithinisha</i>	
Smart Traffic Density and Emergency Signal Controller	414
<i>N. Nithya, B. Sreeman Kumar, S. Suriya</i>	
Advanced Control Strategies for the Grid Integration of Wind Energy System Employed with Battery Units.....	419
<i>S. Pragaspathy, G. Aravindh, R. Kannan, K. Dhivya, S. Karthikkumar, V. Karthikeyan</i>	
An Extensive Study of Cervical Cancer Detection Methods Using Machine and Deep Learning Approaches.....	424
<i>Divya Francis, R Chitra, Rengan. P Kasthuri, Vignesh. G Sri</i>	
Hybrid Energy Storage Based PQ Conditioner for DG Integrated Microgrid.....	429
<i>M T L Gayatri, K K C Deekshith</i>	
Modified U Net Based Learning Model for Semi Supervised Medical Image Segmentation.....	435
<i>P. Ramya, S. Venkatesh Babu, G. Venkatesan</i>	

Implementation of Security-Based Energy-Efficient Dynamic Street Lighting System.....	440
<i>Niharika Manchikanti, G. A. E. Satish Kumar, Prithy Dendi, Vijay Yarabolu</i>	
Density Based Traffic Congestion Control System and Emergency Vehicle Clearance.....	445
<i>Drushya Kamuni, Likhitha Remala, M. Nishitha Reddy, T. Rama Krishnaiah</i>	
Distributed Network Welfare Maximization DSM-DG Strategy.....	451
<i>Mohan S, C. Nayanatara, J. Baskaran</i>	
Automatic Solar Tracking System.....	455
<i>Mohan S, Rajkumar K, Rajakumar P, Hari Pradosh S M, Gandhi S, Balasakthihswaran M</i>	
Aerodynamic Analysis of Supersonic Flow Through a Dual Bell Nozzle Using CFD	459
<i>Sathish S, Seralathan S, Balaji G, Niteesh Kumar M, Madhu G, Muthuram A</i>	
IoT Based Conveyor Belt Design for Contact Less Courier Service at Front Desk During Pandemic	464
<i>Mohammed Jubair Meera Hussain, Kanagaraj Venusamy, Mohammed Sajid Ali, Moza Mohammed Almayahi, Alrayan Mubarak Alharrasi, Ikhlass Mohammed Albahri</i>	
Bit Wise Multipliers Using Symmetric Stackers	471
<i>Ledalla Anjali Devi, Dubey Sagar, Aviti Shiva Ram, Phani Vidyadhar R</i>	
Computational Investigation of Jet Mixing Enhancement by C-D Nozzle with Arc Tabs	476
<i>Muthuram A, Venkat Raman S, Kavikumar K, Seralathan S, Sathish S, Anita M</i>	
SmartWear - An Integrated Watch for Patients	482
<i>Saswati Kumari Behera, G Saisudha, L Vasundhara, J Nasreen</i>	
Speech Recognized Face Composition Tool Using IoT	486
<i>K. Latha, Dharshini S, Harshini M</i>	
A Portable Spirometer Using Machine Learning Approach	490
<i>E. Priya, Nivethitha R, Shivani B. P, Srijee P</i>	
Design and Implementation of Electric Cycle.....	494
<i>T Porselvi, R Kothai, Nandhi K Prathiba, R Karthikeyan, S Balaji, K Gokulapriyan, R Dakshina</i>	
A Review on Machine Learning and Deep Learning Based Rainfall Prediction Methods	499
<i>Nidamanuri Srinu, Bejawada Hima Bindu</i>	
Reliability Prediction of Interleaved Boost Converter Using Bayesian Belief Network.....	503
<i>S. Devi, B. Lakshmi Praba, R. Seyezhai</i>	
Hand Gesture Controlled Wheelchair.....	508
<i>K. Prathibanandhi, V. Selvapriya, M. Karish Leela, R. Sivaprasad, V. Malini, R. Kothai</i>	
Comparative Examination of Interleaved Boost Converter with Voltage Multiplier Cells for Auxiliary Power Supply System.....	511
<i>K. Indumathi, Seyezhai Ramalingam</i>	
A Survey of Circulating Tumor Cells Segmentation and Classification Algorithms.....	517
<i>Kavitha. S, Raghuraman. S</i>	
Vehicle Theft Detection and Driver Identification System Using IoT.....	529
<i>Rachel Shukla, Deepa K, Nithya M</i>	

Design and Simulation of Autonomous Water Tank Cleaning Robot in Gazebo.....	535
<i>Rajesh Kannan Megalingam, Kusumanchi Surya Shanmukh, Aditya Ashvin, Pochareddy Nishith Reddy</i>	
Automated Road Monitoring System Using Machine Learning	540
<i>G. Thamarai Selvi, R. Prabha, Senthil G. A, Shyamalavanan M, Deepak N, Dinesh J</i>	
Electronic Wheelchair with Eye Motion Control for Physically Hectic People	544
<i>K Rajkumar, S Mohan, A Nafeeza Begum, Teena K, Viveka U</i>	
Gas Leakage Detection and Refilling System with Automated Fault Clearness	549
<i>K Rajkumar, S Mohan, Yokeswaran S, Yuvaraj N, Guneshwar M</i>	
Voice-Activated Wireless Control System for Home Automation Using 2.4GHZ WiFi	554
<i>K Rajkumar, Sugunesh R, Rishika S, M. G Suwathi</i>	
Blink to Speak an Assistive Device for Paralyzed People.....	560
<i>Malini V, Jeevanandham S, Gokul P, Prathibanandhi K, Kurinjimalar L</i>	
Energy Saving Through Optimal DG Dispatch with DSM for Residential Consumers.....	563
<i>P. Sharmila, J. Baskaran, M. Senthilkumaran, C. NayanaTara, P. Shanmugapriya</i>	
Advanced Car Parking System.....	567
<i>P. Sharmila, P. Rohinth, P. Priyadarshan, G. Sarvesh</i>	
GSM Based Power Meter Billing with Load Control.....	572
<i>Malini V, Vaishnav M, Venkateshwaran A, Vikas S, Prathibanandhi K, B. Meenakshi</i>	
Smart Energy Meter with Cloud Connectivity	576
<i>V Malini, R K Kumaresan, L Kurinjimalar, K Prathibanandhi, A Venkateshwaran, Srivathsan J K Harish</i>	
PIR Motion Capture Security System	580
<i>V. Malini, M. Santhosh Kumar, R. Swaminathan, A. Mohamed Athil</i>	
Computational Investigation of Jet Mixing Enhancement by C-D Nozzle Using Triangular Tabs	584
<i>A Muthuram, Yejrala Abhishek, Nevin Thomas, S Seralathan, S Sathish, M Anita</i>	
An Intelligent Approach for Electricity Generation: Microbial Fuel Cell	590
<i>G. Puthilibai, V. Chithra, R. Deepashri, R. Jeyashri, V. Devatarika, R. Robert</i>	
Securing IIoT Sensors Communication Using Blockchain Technology.....	594
<i>G. Puthilibai, T. Benil, S. Chitradevi, V. Devatarika, D. R. Ashwin Kumar, U. Padma</i>	
Computational System Based on Machine Learning with Novel Hybrid Security Technique to Classify Crime Offenses.....	598
<i>G. Puthilibai, R. Megiba Jasmine, K. V. Shiny, S. Chitradevi, Devatarika. V, K. Santhosh</i>	
Automatic Intelligent Model for Lung Tumor Detection Using Medical Images	601
<i>P V Ashwathy Devraj, S Manoj Kumar, S. Sriram, G. Venkatesan</i>	
Aeroencrypt.....	607
<i>Aniruddhan S, Bhargavan S, Pughalesh L, Balajee J, Latha B</i>	
A Survey on State of Art Approaches in Handling Imbalance, Positive and Unlabelled Data	610
<i>N. Deepa, R. Sumathi</i>	

Gradient-Driven Texture-Normalized Liver Tumor Detection Using Deep Learning.....	616
<i>R Kiruthiga, Mohamed A Abbas, S Ashok, K. Mohan Raj, R. Azhagumurugan, N. Balaji</i>	
FSM Based DNA Assembly Using Systolic Array.....	621
<i>S Bhuvaneswari, Abishek. B Ebenezer, V Prabhu, K. Mohanraj, R. Azhagumurugan, N. Balaji</i>	
Design and Implementation of Trapezoidal Antenna for UWB Applications.....	629
<i>Manjalam Balaji, J T Arun Raghesh, S Palanivel, K. Mohanraj, R. Azhagumurugan, N. Balaji</i>	
Parkinson's Disease Prediction Using Machine Learning Algorithm	634
<i>Sandhiya S, Ashok. S, G. Vishnu Vardhan Rao, Prabhu V, K. Mohanraj, R. Azhagumurugan</i>	
Speech Processing and Recognition of Sign Language Using Tensor Flow Classifier	639
<i>M Murali, V Senthil Kumar, P Nithya, S Prabhukumar, K. Mohanraj, R. Azhagumurugan</i>	
Twiddle Factor Normalization Based Radix-2k Factorization for Improved Spectral Efficiency in Subcarrier Mapping.....	643
<i>Manjalam Purushotham, P Sharmila, R Kalpana, K. Mohanraj, R. Azhagumurugan, N. Balaji</i>	
High Speed and Low Power Modified Dynamic Double Tail Comparator on 90nm Technology Using Cadence.....	649
<i>Gayathri M, Leopauline S, Kavitha. S, K. Mohanraj, R. Azhagumurugan, N. Balaji</i>	
Design and Implementation of Linear Taper Slot Antenna for Multiband Applications	656
<i>Revathi M, Ruban Thomas D, Mohamed Abbas A, Mohanraj K, Tharani Chitra U, Balaji N</i>	
A Framework of Medical Image Segmentation Using Edge Stop Function Based on Contour Model.....	660
<i>W Nancy, Kumar. P Sathish, Kirubakaran S J Jebasingh, Thomas D Ruban, K. Mohanraj, R. Azhagumurugan</i>	
Smart Class-II Device with Integrated Medi-Tools.....	664
<i>Aishwarya B, Prabhu V, Ebenezer Abishek, K. Mohanraj, R. Azhagumurugan, N. Balaji</i>	
Wi-Fi Enabled Power Extension Board for Energy Optimization and Control of Devices	670
<i>K. Mohan Raj, N. Balaji, M. Abaraajith, S. Lokesh Kumar, M. P. Gokul Kumar</i>	
Study of Various Machine Learning Algorithms for Use with Automatic Speech Recognition	673
<i>T. Sathies Kumar, T. Sheela, D. Arulsevam, S. Premalatha, K. Srividya</i>	
NEMO-SOS- A Future Trends in Smart Accident Alert Application.....	678
<i>Saswati Kumari Behera, Navin S K, Saran V S, Vasundhara L, Saisudha G</i>	
Automatic Object and Crack Detecting System Using IoT	683
<i>B Meenakshi, R Sivaprasad, J Abishek, M Soumya, S Eniyan, M Harish</i>	
Enhancement of Solar Output with Dual Axis Solar Tracker Using Arduino.....	688
<i>R. Suguna, M Shanmuga Priya, B Charuhasan, M Dhakshnamoorthy, R. Senthil Kumar, K Lithish Prabha</i>	
Performance Investigation of 800nm and 1000nm Wavelength in an Optical Wireless Communication	693
<i>Antony Judice, Joel Livin, Aaron James, Subha Bharathi, Kanagaraj VenuSamy, S. Kannadasan</i>	
Intelligent Movement Tracking Robot.....	698
<i>S Deepa Nivethika, Senthilpandian M, Dhamodharan Srinivasan, Naresh M, Danush N, Arun Kumar B</i>	

Reconfigurable Intelligent Surface Based Microstrip Patch Antenna	702
<i>S Deepa Nivethika, Senthilpandian M, Dhamodharan S, Shyam Sundar B, Loganathan G N, Naveen A</i>	
Antenna for Wearable Applications with Various Flexible Substrate	706
<i>S. Rajalakshmi, M. Kanthimathi</i>	
Automation and Monitoring System for Mushroom Cultivation Using Mobile Application and Esp-32.....	710
<i>Rajakumar. P, Sai Siddhaartha B, Sriram B, Rajasekhar S</i>	
Intruder Alert System in Smart Home Based on IoT Technique	714
<i>A. Balaji, B. Sathyasri, Vijaya Vardan Reddy S, D. Indumathy, Rahul Krishnan, S. Vanaja</i>	
Improving Torque in PMSM by Introducing Flux Barrier	718
<i>Mohan. S, S. Sumitha, Gunavathi. G, Prathish Kumar. U, Azhagumurugan. R, Tejas Kanna. G</i>	
A Robust Deep Learning Method for Radiation Induced Pulmonary Fibrosis Disease Classification in Lung CT-A Review.....	724
<i>R Keerthana, Sindu Divakaran, S Nisha</i>	
Cattle Tracking System Architecture Using LORA.....	728
<i>G. Jegan, I. Rexiline Sheeba, P. Kavi Priya, R. M. Joany, T. Vino</i>	
Comparative Analysis of RPL Performance Under Different Wireless Network Topologies.....	732
<i>Parveen M Shabana, P. T. V. Bhuvaneswari</i>	
A Comparative Analysis of Wavelet Transforms for Denoising MRI Brain Images	739
<i>M. Sweetline Sonia, S. Sumathi</i>	
Analysis of Distinctive DC-DC Power Converters for an Enabled Freestanding Solar Water Pump.....	744
<i>S. Sumathi, M. Malukannan, S. Krishnan</i>	
Intelligent Wireless Charging Station for EVs with Integrated PV Power Grid System	750
<i>Porselvi T, Srividhya S, Kurinjimalar L, Meenakshi B, Sivaprasad R, Sai Ganesh CS</i>	
Improvised FOC and Speed Estimation of PMSM Using Reinforcement Learning and Neural Networks	753
<i>R Ragavendran, C Bhavan, CS Sai Ganesh, A Manoj Kumar, G Prabakaran, A M Solana Appalo</i>	
Enhanced Home Automation and Security Using IoT Architecture	760
<i>Sudhir Mohan, Nithish Arro J, R Sitharthan</i>	
Battery Management System Using IOT with Prediction Algorithm Using Machine Learning	766
<i>A. Sanjeevi Gandhi, Suriyan N A, Muralidharan P, Mukeshwaran A</i>	
Low Cost Mobile Inverted Pendulum Using Kalman Filter with Fuzzy Based PID Controller.....	771
<i>Jayanthi G, Umamaheshwari B, Vijayalakshmi S, Dharshini V, Angelin Freeda J, Sahana S</i>	
Design of Miniaturized UWB Antenna for Skin Cancer Recognition.....	777
<i>B. Jeyapoornima, Shaik Thasleem Bhanu, Vanathi A, J. Joselin Jeya Sheela, Santhosh Sivan, S. Praveenkumar</i>	
Design of Elliptical to Circular Dielectric Resonator Antenna for Microwave Imaging Application	781
<i>V. Ramkumar, Supraba C, V. Chinnammal, Rahul Krishnan, L. Saravanan, J. Joselin Jeya Sheela</i>	

An Astute Rescue System for Enhanced Security Using Facial Recognition.....	785
<i>R Sivaprasad, V Chithra, R Deepashri, R Jeyashri, K. Prathibanandhi, M N Subramanyam</i>	
Pocket-Sized Gadget for Detection of Liquefied Crude Oil in Molecular State with IOT Enabled Lightning Notification System	790
<i>Brindha. S, D. Swetha, R. G. Sharath Kumar, V. Rithika, N. Jayapreetha</i>	
Intelligent Image Text Reader Using Easy OCR, NRCLex & NLTK.....	795
<i>C. Jeeva, T. Porselvi, B Krithika, R. Shreya, G Sindhu Priyaa, K Sivasankari</i>	
A Study on Users and Non-Users Scenario of Electric Vehicles in Remote Area	801
<i>Shivani Priya, Shivam Kumar, Misha Kumari, Sachin Raj, Sakshi Sinha, Abhishek Arya</i>	
Digital Holographic Based Food Supply Post Flood Assessment System.....	808
<i>C. Jeeva, Giraja Shankar Chaurasia, Marshal A, Raghavendra R P, Sabarikrishnan S, Dharani Kumar P</i>	
Currency Detection App for Blind People Using MIT App Inventor	813
<i>S. V. Tresa Sangeetha, T. Porselvi, A Venkateshwaran, M Gokul, I Sathmikan, P Tharun Kumar</i>	
Automation of Room Lighting System Using Arduino and PIR Sensor	817
<i>P. Rajakumar, Barath C. Kanna, R Archana, A. Akshaya, K. Abhinaya, M. Boobalan</i>	
IoT Based Voice Assistant Using Raspberry Pi and Natural Language Processing.....	820
<i>Rajakumar P, K. Suresh, Boobalan M, M. Gokul, G. Darun Kumar, Archana R</i>	
Numerical Investigation on Enhanced Aerodynamic Performance of a Bus Using Vortex Generators - Air Tab and Shark Fin	824
<i>Raadhya Krishnan, Mekala Sanmitra, P. Saravanan, V. Madhanrai, L. Shankaralingam, Seralathan Sivamani</i>	
Water Quality Detection Using Computer Vision and IoT	830
<i>K. A Sidharth, P Srilekha, M Shyamkumar, M Boobalan, R Archana, S Visvak</i>	
Transfiguration of Acoustic Energy into Electrical Energy Using Piezoelectric Transducers with Boost Converter.....	833
<i>S. Visvak, C. Nayanatara, M. Suriya, P. Kaviprasad</i>	
Industrial Environmental Monitoring and Rectifying System.....	836
<i>Chithra V, Karthikeyan B, Subash Chandra Bose S, Suman Babu Ch V, Shriranjani. J, Abinaya R</i>	
Smart Railcar Immobilizer and Accident Alert System.....	842
<i>Sivaprasad R, Abhijay Gopal S, Arunraja M, Abinaya VR</i>	
Microcontroller Based Wet Grinder System for Domestic Applications.....	846
<i>T Porselvi, J Shalini Priya, M Hemalatha, C Jeeva, K Aishwarya, B Suruthi</i>	
Railway Accident Prevention Using Ultrasonic Sensors	850
<i>M Sureshkumar, G P Priyanka Malar, N Harinisha, P. Shanmugapriya</i>	
Optimum Relay Selection Using OSBO Algorithm for Cooperative Transmission Networks.....	855
<i>Eqbhal Mohammad Abdul Mannan, E Nagabhooshanam, Mohammed Moazzam Moinuddin, S. Vathsal</i>	

A Fast and Robust Regression Model for Keyframes Extraction	864
<i>P. Chitra, A. Thiripuram, R. Balapriya, Sivakumar, N. Ramakrishnan Raman, D. Rosy Salomi Victoria</i>	
A Vulture Model Flapping - Wing with UAV Technology Based - A Novel Drone for Emergency and Safety Purpose Applications	869
<i>Sarange Shreepad, L. Raja, M Thiyyagesan, Khallikkunaisa, Yagya Dutta Dwivedi, M Jogendra Kumar</i>	
Energy Efficient Error-Free Cooperative Transmission for Wireless Networks.....	876
<i>Eqbhal Mohammad Abdul Mannan, E Nagabhooshanam, Mohammed Moazzam Moinuddin, S. Vathsal</i>	
Implementation of Internet-Of Things (IoT) in Soil Irrigation System	883
<i>Y. Alexander Jeevanantham, Saravanan A, Vanitha V, Samson Isaac. J, S. Boopathi, D. Pavan Kumar</i>	
Economic Impacts and Reliability Evaluation of Battery by Adopting Electric Vehicle.....	888
<i>B. Suresh Babu, J. Kamalakannan, N. Meenatchi, Shiva Kumar S. M, Karthik S, Sampath Boopathy</i>	
A Keyframe Extraction for Edited Video Summarization Using Spatio -Temporal Analysis of GLCM Based Texture Measures	894
<i>Jaichandran R, S. Sagar Imambi, B. Md. Irfan, Ashwin Kumar A, Dhugeshwaran P, Giridaran S</i>	
A Study on the Functionality of PID and Fuzzy Logic Controllers for Quadratic Boost Converter (Qbc).....	899
<i>Sri Harsha Arigela, T. Santhana Krishnan, S. K. Krishnakumar, Mohanraj A, Mangesh R. Mahajan, Revathi. R</i>	
Prominent Rule Control-Based Internet of Things: Poultry Farm Management System.....	906
<i>Sampath Boopathy, Sri Harsha Arigela, Ramakrishnan Raman, C. Indhumathi, V. Kavitha, Bhuvan Chandra Bhatt</i>	
Smart Highway Technique Using Wind Turbine with Vertical Axis (VAWT).....	912
<i>T. Arun Srinivas, M. Jinnah Sheik Mohamed, Saravanan A, P. Sukania, Ashish Pathani, K Sekar</i>	
Smart Wearable Wristband for Patients' Health Monitoring System Through IoT.....	917
<i>Shannmukha Naga Raju Vonteddu, Prasanthikumari Nunna, Shubhi Jain, Samson Isaac. J, Nitya S, G. Diwakar</i>	
Automated Road Monitoring System Using CCTV with Machine Learning	923
<i>G. Thamarai Selvi, N Deepak, A Jaganraj, M Shyamalavannan, J Dinesh</i>	
Advanced Accident Detection System Using Sensor Networks and IoT	927
<i>G. Thamarai Selvi, Sai Rama Krishnan V, Saranraj A, Jananipriya R</i>	
Light GBM Algorithm Based Crop Recommendation by Weather Detection and Acquired Soil Nutrients	932
<i>R Jaichandran, T. Murali Krishna, Sri Harsha Arigela, Ramakrishnan Raman, N Dharani, Ashok Kumar</i>	
High-Speed Data Transmission Through High Throughput Using Slotted-ALOHA BCD Protocol.....	937
<i>Eqbhal Mohammad Abdul Mannan, Nagabhooshanam E, Mohammed Moazzam Moinuddin, S. Vathsal</i>	

IoT Based Control and Management for Parking System	947
<i>Shanmugapriya P, Abishek J, Chandrasekaran G, Khadarjilani N, Govind Kumar Verma</i>	
Silhouette-Based Haman Action Recognition Using Convolutional Neural Network	950
<i>Sanda Sri Harsha, Durga Prasad Y, C. Kalpana, Prisca Mary, V. Sujitha, R. Karthik</i>	
CentredSourced High Gain Multilevel Boost Converter for Renewable Application	956
<i>Sri Harsha Arigela, T. Santhanakrishnan, Ramakrishnan Raman, G. Nixon Samuel Vijayakumar, M Anusuya, T. Logeswaran</i>	
Analysis of Vehicle to Grid (V2G) Integration in Renewable Based Micro Grid	962
<i>Kurinjimalar L, Chandrasekaran G, Jeevanandham S, Prathish Kumar U, Hemalatha M, Ranjith M</i>	
Hybridization of Supercapacitor and Battery for Fast Charging of Electric Vehicles	966
<i>P Shanmugapriya, Pooja Mohan Bengeri, K Dhanya, R Dakshina, VR Abinaya</i>	
GSM-Based Gas Efflux Monitoring Using MQ-2 Sensors	970
<i>Umamaheswari B, Jayanthi G, Kavitha P, Sivakumar R, Ekambareswaran S, Umeshnandhan S</i>	
Bio-Inspired Optimization Algorithm in Optimum Relay Selection for Cooperative Transmission Networks	973
<i>Eqbhal Mohammad Abdul Mannan, Nagabhooshanam E, Mohammed Moazzam Moinuddin, S. Vathsal</i>	
Smart Earthquake Detector and Rescuing System for Differently Abled Person	980
<i>C Jeeva, K Porkumaran, C. S. Boopathi, D. Karthikeyan, Sai Ganesh CS, B Krithika</i>	
Automation of Traffic Control Systems with Deep Q-Learning Network.....	986
<i>R Senthilprabha, Baskaran J, Darshan Sasikumar, Gowtham Sriram, Kevin Nelson, Pranav Harish</i>	
Smart Wearable for Pulmonary Fibrosis Patient Monitoring with Oxygen Saturation Prediction	992
<i>J. Shalini Priya, K B Suraj Kumar, T. Porselvi, S. Thennarasu, M. Hemalatha, L. Kurinjimalar</i>	
Design of a Hybrid Model for Controlling Flow Rate Using Venturiometer	998
<i>S. Premalatha, T. Sathies Kumar, R. Gayathiri, K. Srividya, S. Sruthi, S. P Tharani</i>	
Intelligent Device for Monitoring the Dementia Patients in Real Time Using IoT Technology.....	1002
<i>Parameshwaran, Vijitha Khan, B. Gopi, Dhawaleswar Rao C. H</i>	
IoT Based Energy Assistive Meter to Analyse the Electricity Usage in Commercial and Household Uses Via Wirelessly in a Cloud Network.....	1005
<i>J. Bennilo Fernandes, Sangeetha DP, G. Padmapriya, K. Sekar</i>	
Brain Tumor Detection Using Soft Computing	1009
<i>R. Gayathiri, S. Suganthi, M Nalini, Nambiar M Varsha, R Archana, M Nivetha</i>	
Data Mining Classification Algorithms Applied to the Prediction of Heart Disease.....	1014
<i>D. Vijendra Babu, V Chandrasekaran, Mohamed Kureesh Safir, P G Kuppusamy</i>	
IoT and Cloud Server Based Industry Power Monitoring and Management System	1019
<i>Anuradha Balasubramaniam, K Umapathy, K Periyarselvam, C Malarvizhi</i>	

Wireless Network Based ICU Patient Monitoring System.....	1023
<i>B. Bharathi, M Joly, R. Anitha, K. Sangeetha</i>	
Machine Learning and Wireless Sensor Network Based Library Automation System.....	1027
<i>J Manikandan, T M Sivanesan, Gunasekaran, P S Ramaprabha</i>	
IoT and Machine Learning Technology Based Smart Shopping System.....	1030
<i>U. Arul, A. Arul Prasath, Suman Mishra, J. Shirisha</i>	
Intelligent Sensor and IoT Based Vehicle Pollution Monitoring System with Alert.....	1033
<i>Shakunthala, S V Tresa Sangeetha, Muthu Krishnammal, T V Padmavathy</i>	
Machine Learning and Intelligent Network System Based Covid 19 Health Care System.....	1037
<i>Amjath Ali Jakul Basha, K. Saravanan, T Mangayarkarasi, C Balarengadurai</i>	
Embedded Based Vehicle Data Transmission System with IoT and Li-Fi Technology.....	1041
<i>C. Chandravathi, B. Maruthu Kannan, P. Chitralingappa, M. Balamurugan</i>	
Link Correlation Procedure for Improving Energy Efficiency in Homogeneous WSN	1045
<i>V Suresh Babu, Pardeep Kumar, K. Balasubadra, T Dineshkumar</i>	
IoT - Traffic Video Surveillance System for Weapon Detection	1049
<i>R Thirukkumaran, N Sivabalan, R Jaya, S Saravanan, Ramakrishnan Raman</i>	
Precised and Efficient Mobile Solar Tracking System with Amicable Power Consumption.....	1052
<i>D. Arulselvam, J. Abishek, K. Sivasankari, M. Aarthi</i>	
Movement of Cycle Using Electro-Magnetism Along with Free Energy Generation	1056
<i>Chithra. V, G. Puthilibai, Tharun D, Naveen. B. M, R Surya</i>	
An Investigation Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Network Method Using Fusion Support Vector Machine	1060
<i>Gayathiri R, Suganthi S, Nalini M, Premalatha S, Archana R, Varsha Nambiar M</i>	
Cooperative Sensing with Heterogeneous Spectrum Availability in Cognitive Radio	1064
<i>M. Monisha, P. Vijayalakshmi, K. Somasundaram, N. Arunraj, P. Sathishkumar, M. Meena</i>	
Comparative Analysis on Sediment Classification Using Convolutional Neural Network	1070
<i>R Kumudham, Sathish Kumar, Leo L Megalan, S Sivakumar, T Venkateshkanna, V. Velmurugan</i>	
Deep CNN Based Multi Classification of Respiratory Disease Using X-Ray Images	1074
<i>Sudha Varalakshmi, Vijayalakshmi. P, Rajendran. V</i>	
A Comprehensive Review on Data Partitioning and Sampling Techniques for Processing Big Data	1080
<i>C G Anupama, C Lakshmi</i>	
Credit Card Fraud Detection with Data Sampling.....	1086
<i>T. John Berkman, S. Karthick</i>	
Raspberry PI Based Automated Authentication and Monitoring System for the Examination Centers.....	1092
<i>K. Lakshmi Jositha, S. Nishanthini, B Jayashree Harshini, T. Sadhana</i>	
A Comprehensive Review of Epileptic Seizure Prediction Using Medical Internet of Things	1096
<i>P. Hema, R. Vanithamani</i>	

Smart System for E-Vehicle Management.....	1103
<i>R Sivaprasad, S S Praveen, K Shiva Subramaniya, Ananth S Surya</i>	
Cloud Assisted IOT Enabled Forest Fire Detection System.....	1108
<i>Vishal Vaseekaran K, Kishore P, Sreevarshan S, Saranya S, Sudha G, Sankari Subbiah</i>	
Voltage Regulation for Soft Switching Multiphase IBC Using Fuzzy Logic Controller.....	1112
<i>S Saranya, S. Lakshmi, S. Prakash</i>	
Authentication in the Internet of Vehicles Using Blockchain Technology: Review	1118
<i>Sabavath Sarika, S. Prabakeran</i>	
Analysis the Performance Medical Pharma Information System Applications	1124
<i>Chandrashekhar Kumar, T. Muthumanickam</i>	
Investigation of the Performance IoT Based Healthcare and Medical Monitoring System.....	1128
<i>Thiagarajan Kittappa, G. Ramachandran</i>	
An Efficient Task Scheduling and Data Security in Heterogeneous Cloud Computing Using Hybrid Meta-Heuristic Algorithm and Block Chain Based Key Aggregate Cryptosystem	1133
<i>Devi. D, S. Godfrey Winster</i>	
LSTM Method for Human Activity Recognition of Video Using PSO Algorithm.....	1139
<i>M Razmah, Senthil G. A, R. Prabha, Divya B, Sridevi S, A Naveen</i>	
Machine Learning Heart Disease Prediction Using KNN and RTC Algorithm.....	1145
<i>Senthil G. A, R. Prabha, M Razmah, T. Veeramakali, Sridevi S, Yashini R</i>	
Arduino Based Smart Aiding System for Visually Challenged People	1150
<i>H. Vidhya, A. G. Kavin Sreeram, K. Kiran, K. Karankumar</i>	
An Improved Internet of Things Based Accident Detection System Using Sensor Networks	1155
<i>G. Thamarai Selvi, R. Prabha, G. A Senthil, Sai Rama Krishnan V, Saranraj A, Jananipriya R</i>	
Animal Intrusion Detection and Ranging System Using YOLOv4 and LoRa	1160
<i>B Meenakshi, Aouthithiye Barathwaj Sr Y, Haariharan N C, Krishnakanth L, Abishek J</i>	
Grid Connected Single-Stage Multiport Inverter with Two Independent Source.....	1165
<i>B. Meenakshi, T. Porselvi, M Deepa, R. Sivaprasad, L. Kurinjimalar, V Selvapriya</i>	
Secured Agriculture Crop Monitoring Using Blockchain	1169
<i>R Anand, Abhishek Krishna V P, Dhanel U M, Gowtham Vas</i>	
Energy Based Streaming Consumption in Virtual Environment	1172
<i>Anand R, Nalini Joseph L, Rajesh Kambattan Kovarsan, Palaniappan S</i>	
Implementation of Hyper Parameter Optimization in Liver Disease Prediction	1175
<i>V. Saraswathi, S. Anitha Jebamani, D. Devi</i>	
Real Time Pervasive Health Monitoring System.....	1181
<i>Lakshmi G, Brindha S, Banu Priya P, Myvizhiselvi V, Rashmi A, Akash T, Gowtham J, Venkatesh R</i>	
Smart Solid and Wet Waste Management System	1184
<i>Rajapandian B, Akshaya D, Tamilselvi T, Dilli Rani D, Divya N</i>	

Design and Implementation of 40m Band LSB Mode Home Brew HAM Radio for Emergency Applications.....	1187
<i>N Shivaanivarsha, A G Viavendiran, G Chidambara Raja, L Yeshwanth Balaji</i>	
Design of High Energy Efficient Eco-Friendly Low-Cost Hybrid Auto	1191
<i>N Shivaanivarsha, Siva Chandran S, D Vimal Selvaraj</i>	
Impact of Solar Energy on Mitigating Climate Changes for a Sustainable Development in India.....	1196
<i>Maran K, Senthilnathan C. R., Usha S, Venkatesh P</i>	
Reliability Prediction of Bridgeless AC-DC SEPIC with V-Fill for LED Applications	1200
<i>Lakshmi praba. B, R. Seyezhai</i>	
Multi-Objective Optimization for Enhanced Ethanol Production During Whey Fermentation.....	1206
<i>Chitra Murugan, Sutha Subbaian</i>	
Sensor Based Attendance System Using Feature Detection and Matching with Augmented Reality	1213
<i>D. Roopa, S. Bose</i>	
An Investigation Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Method Using Fusion Support Vector Machine	1222
<i>Gayathiri R, Suganthi. S, Nalini. M, Premalatha S, Archana R, Varshanambiar. M</i>	
Application of IoT with PIR and Air Quality Gas Sensors for Classrooms and Buildings	1226
<i>M. Nalini, Abirami Venkatraman, D Harini, K Kavya, Candes Judeline Perreira, G Aishwaryalakshmi</i>	
Life Saver	1231
<i>G. Saritha, T. Saravanan, S. Sivasubramanian, S. Jayavardhini, G. Nandhini, G. V. Princy Yuvanita</i>	
A Mobile Charger Through a Solar Panel Fabricated from Silicon Scrap.....	1235
<i>K. Venkataraman, E. Vetre Selvan, R. Ashok Gandhi, M. C. Anand Chakravarthi, Varunanand V, B. Vasanthakumar</i>	
An Intelligent Authentication System for Improved Security	1239
<i>M. Hemalatha, J. Shalini Priya, Jeyashri. R, Preethi. S, T. Porselvi, Suji. S</i>	
An Intelligent Reading Aid for Stone Blind Individuals	1244
<i>M. Hemalatha, T. Porselvi, R Deepashri, R Jeyashri, L. Kurinjimalar, J. Shalinipriya</i>	
Location Sensitive Browser App Using MIT App Inventor for Blocking Social Media Websites in Educational Institutions	1248
<i>S. V. Tresa Sangeetha, Senthil Kumar, T. Porselvi, Zaima Abdullah Al-Mazroui, Idris Dhahi Jamil Alnofli, Ali Khamis Hamed Almamari</i>	
Vehicular Network Protocol with IOT in Traffic Scenarios with Safety Requirements-A Review	1253
<i>K. Suganyadevi, V. Nandhalal, A. Shanmugapriya, A. Sangeetha Devi</i>	
Machine Learning Algorithm for KY Converter Based Battery Integrated Grid Tied PV System.....	1259
<i>Mohammed A Ovaiz, Pradeep Katta, R Senthil Kumar, P Sivakumaran, Melvin R Immanuel, B Ramanujam</i>	
Cascaded Fuzzy Logic Algorithm for Multi-Functional Control of PMSG Based WECS.....	1265
<i>Senthil Kumar R, Harshavardhan Naidu S, Mohammed Ovaiz A, Paari Venkat S, Vashanth C, Abinesh M</i>	

- Routine Irrigation System Controlled and Monitored by IoT Using Sensors..... 1271
Mohanthy, S. Ramkumar

Author Index