

2022 International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS 2022)

**Nagpur, India
18 – 19 November 2022**



**IEEE Catalog Number: CFP22BB2-POD
ISBN: 978-1-6654-6113-9**

**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:	CFP22BB2-POD
ISBN (Print-On-Demand):	978-1-6654-6113-9
ISBN (Online):	978-1-6654-6112-2

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

<p>Sizing & Simulation of Single Switch Advanced HG DC-DC Converter Powered by Solar</p> <p>Narendra Kumar Muthukuri (Vignan'S Foundation For Science, Technology & Research), Subbarao Mopidevi (Vignan'S Foundation For Science, Technology & Research)</p>	1
<p>Formulation and Evaluation of Polyherbal Antidiabetic Tablet</p> <p>Mahendra Gunde (Datta Meghe Institute of Medical Sciences), Rushikesh Sonune (Kamla Nehru College of Pharmacy, Butibori, Nagpur), Pravinkumar Suruse (SND College of Pharmacy, Yeola, Nashik)</p>	5
<p>Dynamic Performance Analysis & Sizing of Vehicle Body & Powertrain for 48V Electric 2-Wheeler System</p> <p>Subbarao Mopidevi (Vignan's Foundation For Science, Technology & Research), Kiran Sai Dasari (Vignan's Foundation For Science, Technology & Research), Alla Bakshu Sk (Vignan's Foundation For Science, Technology & Research); Srija Reddy Bhimavarapu (Vignan's Foundation For Science Technology And Research (Deemed To University))</p>	9
<p>A Comprehensive Review on Access Control Systems amid Global Pandemic</p> <p>Gagandeep Kaur (Chitkara University), Abinash Singh (Chitkara University, Punjab), Dhawan Singh (Chitkara University)</p>	15
<p>Low Profile Microstrip Patch Antennas for wearable medical imaging application</p> <p>Asha Susan John (Kalasalingam Academy of Research And Education)</p>	20
<p>Blockchain Technology In Healthcare Industry</p> <p>Ketan Gupta (University of The Cumberlands), Nasmin Jiwani (Student), Haris Sharif (University of The Cumberlands), Nirmal Adhikari (School of Built Environment, Engineering & Computing Leeds Beckett University), Neda Afreen (Jamia Milia Islamia)</p>	24
<p>Deep Transfer Learning for Improving Alzheimer Disease Diagnosis</p> <p>Nakul Pranao D (Kumaraguru College of Technology), Harish M V (Kumaraguru College of Technology), Dinesh C (Kumaraguru College of Technology), Sasikala S (Kumaraguru College of Technology), Arun Kumar S (Kumaraguru College of Technology)</p>	29
<p>A Machine Learning Approach For Early Detection and Diagnosis of Autism and Normal Controls and Estimating Severity Levels Based on Face Recognition</p> <p>Shaista Farheen (VTU CPGS Kalaburagi Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi Karnataka), M.A Waheed (VTU CPGS Kalaburagi Karnataka)</p>	35
<p>Scrutiny For Cybernated Embezzlement Of Credit Card In Modern Era Based On Machine Learning Using Smote & AdaBoost</p> <p>Amtul Fatima Heeba (VTU CPGS Kalaburagi Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Basawaraj Gadgay (VTU CPGS Kalaburagi Karnataka), M.A Waheed (VTU CPGS Kalaburagi Karnataka)</p>	41
<p>Analysis of prognosticate Omicron Using SVM & LASSO</p> <p>Syeda Faiza Fatima (VTU CPGS Kalaburagi Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi Karnataka), M A Waheed (VTU CPGS Kalaburagi Karnataka)</p>	46
<p>Encephalogram based detection of Psychosis Susceptibility Syndrome using CNN and Local Binary Pattern</p> <p>Arshiya Sultana (VTU CPGS,Kalaburagi,Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Basavaraj Gadgay (VTU CPGS,Kalaburagi,Karnataka), M.A Waheed (VTU CPGS,Kalaburagi,Karnataka)</p>	52
<p>Medical X-Rays Categorization and Irregularity Recognition of Bone and Diagnosis of Bone disorders Based on Xception Model.</p> <p>Mohammedi (VTU CPGS Kalaburagi,Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi,Karnataka), M.A Waheed (VTU CPGS Kalaburagi,Karnataka)</p>	58

Deep Learning and Image Processing Techniques applied in Panoramic X-Ray Images for Teeth Detection and Dental Problem Classification Shaziya Fatima (VTU CPGS Kalaburagi,Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi,Karnataka), M.A Waheed (VTU CPGS Kalaburagi,Karnataka)	64
Prediction and Categorization Of COVID-19 Related Dermatological Manifestations Using Machine Learning Nameera Simran (VTU CPGS Kalaburagi,Karnataka), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi,Karnataka), M.A Waheed (VTU CPGS Kalaburagi,Karnataka)	69
Machine Learning Based Revealing Psychology Destabilization Nuzhat Fatima (VTU CPGS Kalaburagi), Dr Shubhangi D C (VTU Kalaburagi), Baswaraj Gadgay (VTU CPGS Kalaburagi Karnataka), M A Waheed (VTU CPGS Kalaburagi Karnataka)	75
Bio-Hydrogen Production Through Gasification of Agro-residues Sunil L Narnaware (FEAT), Swati Sunil Narnaware (Faculty of Engineering and Technology, DMIMS(DU), Wardha), Pramod Shaligram Mahale (FEAT, Wardha)	80
A Comprehensive Analysis of Biofeedback Treatment in Migraine Nasmin Jiwani (Student), Ketan Gupta (Student), Haris Sharif (University of The Cumberland), Nirmal Adhikari (Leeds Beckett University), Neda Afreen (Jamia Milia Islamia)	84
A DEEP LEARNING APPROACH FOR OCULAR DISEASE DETECTION Shivendra Singh (Datta Meghe Institute of Medical Sciences), Ashutosh Bagde (Jawaharlal Nehru Medical College), Shital Telrandhe (Datta Meghe Institute of Medical Sciences), Roshan R Umate (Jawaharlal Nehru Medical College, Datta Meghe Institute of Medical Science), Aniket G Pathade (DMIMS), Mayur B Wanjari (Dmims), Prachi Dabhade (DMIMS, Wardha)	88
Interpretation of Correlation Among Renal Obstruction Detecting Parameters Using 99mTc-DTPA Renal Diuretic Scintigraphy Pradnya Narayan Gokhale (SPCE)	93
Improved Current Source Inverter with Lesser Input Inductor for PV-Grid Interface Esther Jennifer Isaac (FCRIT), Dr Mini Rajeev (Fr.C.Rodrigues Institute of Technology)	97
The Comparison of Biofuel from Waste Oil, Methanol, and Diesel Using GT-POWER Based on Economic and Environmental Impact Analysis Uttam Barua (Chandigarh University), Gurpreet Kaur (Chandigarh University), Md Helal Miah (Chandigarh University)	102
IOT based incident control system using air quality index monitoring system Pranit Murlidhar Nakade (Bharati Vidyapeeth College of Engineering, Navi Mumbai), Swati Jha (Bharati Vidyapeeth College of Engineering, Navi Mumbai), Meghraj Nazare (Bharati Vidyapeeth College of Engineering, Navi Mumbai), Sushmeet Kaur (Bharati Vidyapeeth College of Engineering, Navi Mumbai), Shweta Nadge (Bharati Vidyapeeth College of Engineering, Navi Mumbai)	108
Modeling of Motion Control Drive in the Mobile Radiographic System Shreya Tavare (College of Engineering Pune), Ambadas Mane (College of Engineering Pune)	113
A Mini-Review on Solar-Powered Energy Conservation Strategies for Sustainable Greenhouse Systems Kamal Prajapat (Medi-Caps University Indore), Mahesh Dhonde (Medi-Caps University, Indore, India), Kirti Sahu (Govt. S.N.P.G. College, Khandwa), VVS Murty (Govt. Holkar Science College, Indore)	118
A Brief Overview on Fuel Cell Electric Vehicles Uliya Mitra (Maulana Azad National Institute of Technology, Bhopal)	124
Enhancing Customer 360 With Better Service Management using Salesforce CRM Ganesh Yenurkar (Yeshwantrao Chavan College of Engineering, Wanadongari, Hingana Road, Nagpur), Shivkumar J Karale (YCCE); Nilesh Sambhe (YCCE), Laxmikant Umate (Jawaharlal Nehru Medical College,Datta Meghe Institute of	130

Medical Sciences Wardha), Ganesh Khekare (G H Raisoni College of Engineering, Nagpur)	
A Study of Real-Time Human Machine Interface for Scheduling Smart Microgrids Uliya Mitra (Maulana Azad National Institute of Technology, Bhopal), Ankur Kumar Gupta (Maulana Azad National Institute of Technology, Bhopal)	135
Implementation of Lane detection in Autonomous vehicle using FPGA Kalaiselvi A (Kumaraguru College of Technology), Gopinathan M (Kumaraguru College of Technology), Mohideen A (Kumaraguru College of Technology), Soundarrakumar R (Kumaraguru College of Technology), Uma Maheswari Viswanathan (Kumaraguru College of Technology)	141
Textbook to Braille books Conversion Using Pattern Matching Technique Amreen R (Panimalar Engineering College), Suba Sree Sudhakar (Panimalar Engineering College), Priya R (Panimalar Engineering College), Ambeth Kumar V D (Panimalar Engineering College), Tharun C (Panimalar Engineering College), Chitra B (Panimalar Engineering College)	148
IoT BASED SMART E-AGRICULTURE MONITORING WITH ANDROID APPLICATION Priyanka Sanjay Deotale (G.H.Raisoni College of Engineering Nagpur), Dr. Prasad P. Lokulwar (G H Raisoni College of Engineering, Nagpur)	153
Implementation of Patient E-Health Monitoring System using Mobile Applications Uma Maheswari Viswanathan (Kumaraguru College of Technology), Kalaiselvi A (Kumaraguru College of Technology)	158
A Survey on Floating Point Arithmetic Units for Non-Linear Application Kuldeep Pande (Yeshwantrao Chavan College of Engineering Nagpur)	163
A Review on Smart Energy Meters and Their Market Trends Swati Arora (Chitkara University), Abinash Singh (Chitkara University, Punjab), Dhawan Singh (Chitkara University), Aditi Thakur (Eternal University), Sahil Rana (Chitkara University)	167
Dual Band THz Metamaterial based Absorber for Gas Refractive Index Sensing Shruti . (KIIT University)	173
Crime Prediction using Machine Learning Sankalp Singh (St. Vincent Pallotti College of Engineering and Technology), Akshay Gole (St. Vincent Pallotti College of Engineering and Technology), Prathamesh Kanherkar (St. Vincent Pallotti College of Engineering and Technology), P R Abhishek (St. Vincent Pallotti College of Engineering and Technology), Pallavi Wankhede (St. Vincent Pallotti College of Engineering and Technology)	179
Recent Progress in Synchronization Approaches to Mitigation Voltage Sag Using HESS D-FACTS Mohamed Mohamed Khaleel (College of Civil Aviation), Naser El Naily (Electronics), Hamdi Alzargi (College of Technical Sciences – Derna), Mohamed Amer (College of Civil Aviation), Tahir Ghandoori (College of Technical Sciences-Haraba), Adel Abulifa (College of Civil Aviation)	186
Inverted bracket-shaped refractive index sensor with high Q-factor for biomedical applications Pritha Mukherjee (KIIT University), Sasmita Pahadsingh (KIIT University)	191
Computationally Optimized Approximate Computing for Signal Processing Applications Prasanna M Palsodkar (Yeshwantrao Chavan College of Engineering), Prachi Palsodkar (Yeshwantrao Chavan College of Engineering), Pravin Dakhole (Yeshwantrao Chavan College of Engineering), Roshan R Umate (Jawaharlal Nehru Medical College, Datta Meghe Institute of Medical Science), Ajay Gurjar (Sipna'S College of Engineering & Technology), Aniket Gokhale (Yeshwantrao Chavan College of Engineering, Nagpur)	196

Some Investigations on Synchronous Generator Connected to Infinite Bus Snehal P Gawande (Yeshwantrao Chavan College of Engineering), Pranjali M Meshram (Yeshwantrao Chavan College of Engineering), Shailesh M. Deshmukh (Kalinga University, New Raipur. Chhattisgarh), Amrita Choudhury (Kalinga University, Raipur, India)	200
REAL TIME AI BASED FACE MASK DETECTOR Venkata Nali Rao (Kalasalingam University)	206
Quality Assessment Method for Image Inpainting Shweta A Dhondse (Yeshwantrao Chavan College of Engineering)	211
Design And Installation Of Wired Closed-Circuit Television (CCTV) Faith Salami (Covenant University), Daniella Kalimumbalo (Covenant University), Kikelomo Omotoye (Covenant University), Joy Olayiwola (Covenant University), Philip Ewejobi (Covenant University), Innocent Nwokolo (Covenant University), Babatunde Alao (Covenant University)	216
Classification of Power Quality Disturbances using the Unique Combination of Hilbert Transform, Image Processing and K-Nearest Neighbor Ravishankar Shaligram Kankale (Shri Sant Gajanan Maharaj College of Engineering, Shegaon)	220
Laptop Price Prediction using Machine Learning Algorithms Mohammed Ali Shaik (SR University), Medicherla Varshith (SREngineering College) Sanka Sri Vyshnavi (SR Engineering College), Nagamalla Sanjana (SR Engineering College), Rama Sujith (SR Engineering College)	226
An Empirical Study on Blockchain Technology-Enabled Systems in Commodity Markets Vivian Brian Lobo (St. John College of Engineering And Management), Madhuri Rao (Thadomal Shahani Engineering College)	232
Implementation of Charging Standards and Communication Protocols for Electric Vehicle DC Fast Charging Station Sahil Sunil Shirsat (College of Engineering Pune), Ganesh Andurkar (College of Engineering Pune), Purushottam Ekande (Ador Powertron)	238
Fast charging of mobile devices using Li-Ion batteries Pradnya Ashok Maturkar (Yashwantrao Chavan College of Engineering,Nagpur), Roshan R Umate (Jawaharlal Nehru Medical College,Datta Meghe Institute of Medical Science), Shilpa Katre (St.John College of Engineering & Management Mumbai,India)	243
Performance Analysis of Planar Transformer for DC-DC Converter with Ansys Maxwell Chetas Bhaskar Gaikwad (College of Engineering,Pune)	247
Multi-objective Optimal Placement and Sizing of Battery Energy Storage System in Unbalanced Three-Phase Distribution Networks with High PV Penetration Devendra Sul (College of Engineering,Pune), Atul Phadke (College of Engineering, Pune)	252
Design of 145 kV OIP Based Transformer Bushing Using ANSYS MAXWELL Pundlik G Gutte (College of Engineering Pune), Atul Phadke (College of Engineering Pune)	258
Effective Segmentation of Liver CT images using Marker Controlled Watershed Algorithm Mohammad Anwarul Siddique (Lovely Professsional University), Shailendra Kumar Singh (Lovely Professional University), Moin Hasan (Lovely Pofessional University)	264
Comparative Study of Sliding Surfaces Used in Photovoltaic Application to Track the Maximum Power Devesh S Patil (College of Engineering Pune), Snehal Unde (College of Engineering Pune), Amruta Deshpande (College of Engineering Pune)	269
Bi-directional Multifunctionality Optimum Power Converter For Electric Vehicle Application With Provision For V2G and G2V. Shadab A Shaikh (College of Engineering Pune), Milind Bagewadi (College of Engineering Pune)	274

Detection of Oral Cancer Using the Fluorescence Spectroscopy and Classification of Different Stages of Cancer by Multivariate Analysis Pavan Kumar (FEAT, Dmims (Du))	279
Click Prediction Learning for Effective Advertising Shreyas K Patil (YCCE, Nagpur), Taranjyot Singh (YCCE, Nagpur), Kaustubh Raut (YCCE, Nagpur), Yogita Dubey (YCCE, Nagpur), Prachi Palsodkar (YCCE, Nagpur), Roshan R Umate (Jawaharlal Nehru Medical College, Datta Meghe Institute of Medical Science)	283
IoT Based Unlocking of Home Automation System with Face and Speech Detection using ESP32 and Google Assistant Maram Koteswara Rao (Sri Vasavi Engineering College), Margani Satish (Sri Vasavi Engineering College), Avvari Hemanth Sree Sai (Sri Vasavi Engineering College), Konakalla Manikanta (Sri Vasavi Engineering College)	289
Distributed control based multi agent system for energy management of hybrid microgrids system Balachennaiah Pagidi (Annamacharya Institute of Technology And Sciences)	296
Efficient Deep Learning Algorithm for Diagnosing the Flora Diseases Dr Senthil Ganesh G Ramasamy (Sri Krishna College of Engineering And Technology), Sivakumar S A (Dr.N.G.P. Institute of Technology)	302
Low Power Address Generator using Improvised Clocking Scheme Karuna Milind Bogawar (Priyadarshini College of Engineering, Nagpur), Shashank S Shriramwar (Priyadarshini College of Engineering)	308
Performance Evaluation of Predictive Models for Breast Cancer Classification Nandini S Sakhare (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Samruddhi Uplapwar (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Yashaswi Rewatkar (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Nikita Parate (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Janhavi Khalatkar (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Yogita Dubey (YCCE, Nagpur)	312
Cable Fault Analysis and Novel Protection Scheme for Standalone DC Nanogrid Minal D Karalkar (Government College of Engineering, Amravati)	317
Precision Diagnosis to Discriminate Covid-19 and Pneumonia using Mixed-data Model based on Custom Neural Networks Sonal A Gore (Pimpri Chinchwad College of Engineering, Nigdi), Neelam Gaikwad (Pimpri Chinchwad College of Engineering)	322
Real Time Health Monitoring System using Embedded System Mayuri Vishwas Shendage (College of Engineering Pune), Ashwini Kulkarni (College of Engineering Pune)	327
Empirical Analysis of Predictive Models For Insurance Claim Classification Ankit Harale (Yeshwantrao Chavan College of Engineering, Nagpur), Abhijeet Motghare (Yeshwantrao Chavan College of Engineering, Nagpur), Yogita Dubey (YCCE, Nagpur), Megha B Chakole (YCCE Nagpur), Vikas Gupta (Ramdeobaba College of Engineering And Management), Aniket G Pathade (DMIMS)	333
GIS based Asset Management in Electrical Distribution Utilities Ravindra M. Moharil (Yeshwantrao Chavan College of Engineering, Nagpur), Foolchand Ahirwar (Yeshwantrao Chavan College of Engineering, Nagpur)	337
Comparative Analysis of Normal Washroom Vs. IoT Based WPS Washroom Yogesh Subhashrao Kale (YCCE College), Prachi Dhanraj Gawande (Yeshwantrao Chavan College of Engineering), Prachi Dabhade (DMIMS, Wardha)	342
Change Detection of Vegetation by Satellite Image Analysis Nita M. Nimbarte (Yeshwantrao Chavan College of Engineering, Nagpur)	346
4 Bit and 8 Bit Convolution Using Vedic Multiplier Rahul P Kamdi (YCCE), Prasheel Thakre (RCOEM), Aniket G Pathade (DMIMS), Sandeep Kumar Tiwari (Government Polytechnic, Yavatmal), Kamlesh Kalbande (G H Raison)	352
Framework for Alzheimer Diseases Classification using Machine Learning Algorithms Pushkar Kishor Wankhede (Yeshwantrao Chavan College of Engineering), Yogita	358

Dubey (YCCE, Nagpur), Shrutika Gawande (Yeshwantrao Chavan College of Engineering), Nandini S Sakhare (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Manu Varghese (Yeshwantrao Chavan College of Engineering), Manoj S Patil (Datta Meghe Institute of Medical Sciences University, Wardha)	
Design of IsoQER Cryptosystem using IPDLP Nilesh Bhosale (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Akshaykumar J Meshram (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Rupesh Pohane (Suryodaya College of Engineering And Technology, Nagpur), Malabika Adak (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), Dnyaneshwar Bawane (Yeshwantrao Chavan College of Engineering (YCCE), Nagpur), K. T. V. Reddy (Faculty of Engineering And Technology, Datta Meghe Institute of Medical Sciences (Deemed To Be University), Sawangi (Meghe), Wardha)	363
Design of Universal Set of CMOS Gates using Multiple Valued Logic Yashika A Gaidhani (Y.C.C.E)	368
Retinal Damage Detection using Conv2D Net Roshni Khedgaonkar (Yeshwantrao Chavan College of Engineering), Anagha Nagrare (Yeshwantrao Chavan College of Engineering), Amogh Pande (Yeshwantrao Chavan College of Engineering), Aniket Funde (Yeshwantrao Chavan College of Engineering), Brajesh Rathi (Yeshwantrao Chavan College of Engineering), Ashutosh Bagde (Jawaharlal Nehru Medical College)	373
IOT Based Patient Health Monitoring System Using ThingSpeak Dr. Bhushan M Manjre (Yeshwantrao Chavan College of Engineering, Nagpur), Bhushan U Bawankar (YCCE, Nagpur), Dr. Vaibhav Uplanchiwar (NCP, Nagpur)	378
Experimental analysis of twin blade contra-rotating wind turbine Neeraj Sunheriya (Yeshwantrao Chavan College of Engineering, Nagpur), Dr Rajkumar B Chadge (Yeshwantrao Chavan College of Engineering, Nagpur), Jayant Giri (Yeshwantrao Chavan College of Engineering), Dr. Sachin G Mahakalkar (Rajiv Gandhi College of Engineering & Research, Nagpur), Pratik Lande (Yeshwantrao Chavan College of Engineering, Nagpur), Ashutosh Bagde (Jawaharlal Nehru Medical College)	383
SWT Based heterogeneous features to detect Spliced images Narendra Giradkar (Smt. Radhikatai Pandav College of Engineering), Prashant Patil (Smt. Radhikatai Pandav College of Engineering), Pratik Ramesh Hajare (S. B. Jain Institute of Technology, Management & Research), Poonam Agarkar (Yeshwantrao Chavan College of Engineering), Avinash B Lambat (Babasaheb Naik College of Engineering), Sujata G Bhele (Government College of Engineering)	389
ZnO coated nonwoven polypropylene fabric with antibacterial and antiviral function for medical applications Gauri S Deshmukh (Yeshwantrao College of Engineering, Nagpur)	395
Solar and Grid Power Integration for Water Pump Application Atul S Lihare (YCCE)	401
Analysis and Simulation of Sound Classification System Using Machine Learning Techniques Sharayu Rinkal Kawale (YCCE College), Dharmesh Dhabliya (Vishwakarma Institute of Information Technology), Ganesh Yenurkar (Yeshwantrao Chavan College of Engineering, Wanadongari, Hingana Road, Nagpur)	407
Rectangular Patch Antenna with EC Slot and Stubs for emerging wireless Applications Dr.Sachin Khade (Yeshwantrao Chavan College of Engineering), Ketki Milind Kotpalliwar (Yeshwantaro Chavan College of Engineering), Chitra Bawankar (GHRIET), Prasanna Zade (DMIETR), Diksha Ninawe (Yeshwantrao Chavan College of Engineering)	413
Effect of graphene on electrochemical performance of carbon nanofibers synthesized by electrospinning Diptee Vinod Jamkar (Yeshwantrao Chavhan College of Engineering, Nagpur, Maharashtra, India)	417

Power Flow Control through Transmission Line using DSSC Sandeep R Gaigowal (YCCE)	423
Brain Tumor Segmentation and Model Optimization for 3-D Printing Chetan Mahatme (Yeshwantrao Chavan College of Engineering Nagpur), Jayant Giri (Yeshwantrao Chavan College of Engineering), Rajkumar Chadge (Yeshwantrao Chavan College of Engineering Nagpur), Punit R Fulzele (Datta Meghe Institute of Medical Sciences)	428
Object Detection using YOLO to Search Project Details Lalit B. Damahe (Yeshwantrao Chavan Collage of Engineering), Priyanka Harne (Yeshwantrao Chavan Collage of Engineering), Jagruti Dekate (Yeshwantrao Chavan Collage of Engineering), Samruddhi Jadhav (Yeshwantrao Chavan Collage of Engineering), Sonam Raut (Yeshwantrao Chavan Collage of Engineering), Aniket G Pathade (DMIMS)	432
Development of Kalman Filter Based Discrete PID Controller for DC-DC Converter Aditi Fulari (College of Engineering Pune)	436
Internet of Things Communication protocols optimization using Blockchain Technology integrated with Reinforcement Learning Mamta Kumari (G H Raisoni University ,Saikheda), Dr. Mahendra Gaikwad (G H Raisoni College of Engineering, Nagpur), Dr. Salim A Chavhan (Govindrao Wanjari College of Engineering & Technology)	441
Postoperative Discharge Destination Classification via Extreme Gradient Boosting Gernel Lumacad (St. Rita'S College of Balingasag), Aliah Alpha Micaroz (St. Rita'S College of Balingasag), Junar Paolo Gabia (St. Rita's College of Balingasag)	448
Comparative analysis of machine learning techniques for classification of Alzheimer's disease Siddharth Rathee (Manipal University Jaipur, Jaipur), Akshara Madhu Suthanan (Manipal University Jaipur, Jaipur), Anil Kumar (Manipal University Jaipur, Jaipur)	454
Predictive Analysis of Cardiovascular Diseases Hrishikesh P Vinzey (Yeshwantrao Chavan College of Engineering, Nagpur), Soham Kottawar (Yeshwantrao Chavan College of Engineering, Nagpur), Aditya Tidke (Yeshwantrao Chavan College of Engineering, Nagpur), Yogita Dubey (YCCE, Nagpur), Prachi Palsodkar (YCCE, Nagpur), Punit R Fulzele (Datta Meghe Institute of Medical Sciences)	461

Additional Paper

IoT Based electric Vehicle Charging Socket. Ravi Kumar (Department of Electronics and Telecommunications College of Engineering), S. P. Mahajan (Department of Electronics and Telecommunications College of Engineering)	466
---	-----