

2023 5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023)

**Navi Mumbai, India
20-21 January 2023**



**IEEE Catalog Number: CFP23A68-POD
ISBN: 978-1-6654-6505-2**

**Copyright © 2023 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:	CFP23A68-POD
ISBN (Print-On-Demand):	978-1-6654-6505-2
ISBN (Online):	978-1-6654-6504-5

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

Sr. No.	Paper ID	Title of paper	Authors Name	Page
1	2022282148	Design and development of a small scale EMU model with motorman cabin emulation	Harsh Chaudhary, Gokul Narayanan, Khaliluddin Sarkazi, Ayush Misra, Shaikh Mohammed Owais, Seema Jadhav, Dr Mini Rajeev	1
2	2022282931	Indoor Positioning System Using LiFi Based Network for Mobile Robots	Dev Shankar Paul and Washima Tasnin	7
3	2022283123	Performance Analysis of Machine Learning and Deep Learning Techniques for Answer Type extraction of Marathi Questions	Dhiraj Amin, Dr.Sharvari Govilkar and Sagar Kulkarni	13
4	2022283206	Design and Analysis of 8-bit Vedic Multiplier	Shrutika Patel, Saylee Gharge, Aditi Patil, Nidhi Mundhada and Vaishnavi Shetty	19
5	2022283428	Resilience Metrics for Integrated Energy Systems: A Review	Puneet Pahadia, Prerna Jain, Abhishek Harit and Ashok Agarwal	24
6	2022283750	Detecting Cybersecurity Attacks in Industrial Internet of Things: A Systematic Literature Review	Maithili Andhare, Vijayalaxmi Kumbhar and Arti Tekade	30
7	2022283846	A Review on Various Methods Employed to Measure Air Quality in the Vicinity Using Internet of Things.	Anurag Singh, Swati Jha, Archishmati Sonkamble, Zuber Ustad and Akash Shukla	37
8	2022283916	All inorganic lead-free perovskites for photocatalysis: Preparation and Absorption study	Amrita Mandal Bera , Suma Jebin and Swapna Gijare	43
9	2022283961	LSTM Network for Suicide Detection	Aakash Gupta, Umme Salma M. Pirzada	47
10	2022283971	Scrutinizing Machine Learning Models For Cancer Prediction	Pankaj Kunekar, Sankalp Ghadge, Smit Lahane, Sanket Lahoti, Nikhil Suryawanshi, Eklavya Chaudhari	52
11	2022284207	Detection and Classification of Diabetic Retinopathy using Deep Learning	Dhairya Parikh, Dhruvin Dungrani, Harsh Lotia, Revathi S and Kavitha K.	56
12	2022284280	OCR based Cheque Validation using Image Processing	Onkar Kulkarni, Pankaj Kunekar, Rutik Kadam, Kunal Ingale, Shantanu Inamdar, Kuldeep vayadande	61
13	2022284294	Content-Based Filtering Using K-Nearest Neighbor	Pankaj Kunekar, Aparna Sawant, Rutuja Taywade, Abhishek	66

			Tiwari,Rohit Sharma,Mayur Shinde,Ayushi Roy	
14	2022284367	A Survey On FAScam: FAStag Fraud Detection System	Siddhant S Gunjal, Tini Tomy, Alessandra Serpes, Abhishek B Yadav, Vaishali Bodade	72
15	2022284398	Vyakranly- Hindi Grammar & Spelling Errors Detection and Correction System	Vasudha Sude, Shriya Tickoo, Rhutuja Kale, Rachel Sequeira, Lakshmi Gadhikar	77
16	2022284424	Animal Healthcare and Farm Animal's Disease Prediction Using Machine Learning	Glenn Muga, Augustin Nadar, Adishree Sane, Easther Masih and Smita Rukhande	83
17	2022284950	Building a modern microservices ecosystem for environmental monitoring using IOT sensors	Edwin Vincent, Pratik Dhumal, Gregory Biju, Rahul Jadhav	89
18	2022285128	Secured Private Network Cyber-Security Application	Savitri Bevinakoppa, Ivan Mascarenas, Yulianto Mok, Raafat Salih Hadi	93
19	2022285131	Innovative Technology in Creating Liquid Hologram with Holofans	Dirk Hertford, Savitri Bevinakoppa, Rajni devi, Rahul Dawer, Ammara Javaid, Jyoti Kaushik, Kajal	99
20	2022285231	Camera Detection for Blind People Using OCR	Yugal Urkude, Pankaj Kunekar, Tanmay Khiratkar, Uday Sonwane, Sejal Nikhade, Utkarsha Mandlik and Tushar Gaikwad	105
21	2022285292	Flood Management System Using Cloud Computing and Internet-of-Things	Himanshu Rai Goyal, Sachin Sharma	111
22	2022285437	Sign Language Translator for Speech Impaired People	Vijay Mane, Tejas Adsare, Tejas Dharmik, Neeraj Agrawal, Prajwal Atram, Dijasmit Patil	117
23	2022285439	Blockchain Based Crowdfunding Platforms - Exploratory Literature Survey	Namratha M, Harsh Rao, Shaan Subbaiah, Pranjal Sinha and Prithvik Aniketh	122
24	2022285463	A comparative study on Diabetic Retinopathy Detection and Classification	Shweta Chavan, Samyak Shah, Shikha Punjabi, Revathi A S, Kavitha K.	126
25	2022285478	Design of a Basic BMS: A Warning System	Twinkle Pattnaik, Aditya Garg, Shivpal Verma, Makarand Ballal, Manish Wath and Sarvesh Wakode	132
26	2022285484	Stability Analysis of Quadratic Boost Converter with Different Controllers	Mahendra Rane, Rashmi Kale and Abhishek Shiwalkar	138
27	2022285521	NFT For Collectibles	Karthik Venugopal, Namratha M, Khrithik S Anand and Nidhish Lakhinana	144
28	2022285666	Smart Gas Stove with inbuilt Safety Features	Kartikraj, Pooja Chavan, Hitesh Mahajan, Prathamesh Jaitpal and Mini Rajeev	149

29	2022285691	AI-based Desktop Voice Assistant	Pankaj Kunekar, Aniket Bichare, Ajinkya Deshmukh, Kiran Gunjal, Sachin Gajalwad and Shubham Hingade	154
30	2022285696	Design & Development of Semi-Automated Multipurpose Electric Farming Bot	Yash Kale , Chinmay Desai , Vaibhav Mistari , Tejas Sonawane , Praseed Kumar, Nilaj N Deshmukh	158
31	2022285733	Smart Mail Access SMA-01	Corneliu Buzduga and Calin Ciufudean	164
32	2022285806	A Machine Learning Prediction Model for Envisaging Future Risk of Suicide	Vivian Lobo, Omkar Nikam, Shreyash Singh, Swaraj Patil, Suryakrishnan Nair, Aniket Raut, Shraddha More and Ronald Laban	168
33	2022285859	Real-time Surveillance system using Face Recognition and AR	Neelam Chandolikor, Vedang Bhange, Akash Hedau, Umesh Gaikwad, Rahul Baviskar, Abdulrahman Ahmed	174
34	2022285988	Exploiting Cyber Threats And Protecting Cryptocurrencies Toward Bitcoin Exchanges	Vasudha Rani Vaddadi, Punya Vardhan Raj Annepu , Nithin Gollapalli , Abhishek Challa , Sai Bharath Andhavarapu , Prasanth Kumar Botta	179
35	2022286115	Survey on Virtual Recruitment System	Saket chandorkar, Sharwari Amberkar, Mithilesh Dalvi, Amisha Gawand and Mimi Cherian	185
36	2022286208	A Novel Bidirectional Modified SEPIC Converter with Wide Voltage Conversion Ratio	Sunil Mandal, Dr. Prajof Prabhakaran	190
37	2022286494	A Survey on Smart City Surveillance System	Saeem Ansari, Faiz Ali, Manish Chaudhary, Karuna Varshney	196
38	2022286564	AlgoViz: Algorithm Visualization	Aakash Gupta, Madhura Vyawahare	201
39	2022286570	Linear Regression Approach For Stock Chart Pattern Recognition	Jignesh Mathure, Amay Tripathi, Shivam Deotarse, Darshak Rai, Lakshmi Gadhikar	206
40	2022286617	Performance Characteristics Analysis for Solar PV Module	Seema Jadhav, Ruchi Harchandani	212
41	2022286645	Support Vector Machine, Naïve Bayes, and Recurrent Neural Network to Detect Data Poisoning Attacks on Dataset	Ravina Bhadle and devichand Rathod	217
42	2022286647	Barricading System - System communication using gRPC and Protocol Buffers	Shreya Sapale, Akshata Sangwai, Rahul Jadhav, Shweta Ghodake	221
43	2022286665	Optimal Planning and Performance Analysis of	Surajit Sannigrahi, Sriparna Ghatak, Parimal Acharjee	226

		Hybrid Energy System for Oil Tanker Ships		
44	2022286824	Design and Fabrication of IoT based Agricultural Automation system	Ritwik Saraf, Jason Veigas, Suvarna Rode, Natesh Shetty, Srushti Shardul	232
45	2022287225	A Novel Approach for Operational Efficiency Assessment of Electrical Utilities	Ninad Totare, Bindu S	238
46	2022287230	IOT Based Solar Powered Automated Water Level Indicator and Distribution System	Sarathi Padhy, Jayesh Rajam, Atharva Parulekar, Sreyas KV, Bipin Mashilkar	243
47	2023000377	IoT based Smart Security Helmet for Miner's Safety	Prerana Waghmare, Preyas Videkar, Sangharatna bombarde, satyamedha yeradonidesai, yash wagh, Viraj Khandagale, and Pankaj Kunekar	249
48	2023000423	Hand Gesture Controlled Automated Vehicle	Amruta Pabarekar, Tresa Biju, Mahima Beck, Wenit Melba, Steffi Mary Samkutty	254
49	2023001243	Simulation Of Multilevel Inverter With Six Switches	Divya Sajeesh	259
50	2023001667	Sign Language Finger-Spelling Recognition System Using Deep Convolutional Neural Network	Antara Howal, Atharva Golapkar, Yunus Khan, Siddhantha Bokade, Satishkumar Varma and Madhura Vyawahare	264
51	2023001728	Face Recognition Based Attendance System	Harshada Giri, Atharv Vanjari, Deepali Joshi, Priti Patil, Vishal Singh and Tejas Shinde	270
52	2023001798	Development of an Aquatic Robot for Cleaning Swimming Pools	Mathewlal T. , Samantha T Dias , Firas F Bijle , Zaid Barwelkar , Dominic S Chettiar	276
53	2023001809	Educational chatbot on Data Structures and Algorithms for the Visually Impaired	Lakshmi Kurup and Vidish Panchal	280
54	2023002571	Surface Properties Enhancement for Wear Resistance using Thermal Spray Coating	Rupanjon Das Gupta , Ishaan Deshmukh , Ritu Khimasiya , Febin Wilson , Swaraj Gujar , Sanjay Rukhande	286
55	2023002756	Solar Panel Cleaning Robot	Deepak Devasagayam , Jay Masal , Joshua Mendonce , Akash Kumar Singh , Shreyash Patil	290
56	2023002757	Line Following Cart (LFC) for office applications	Aqleem Siddiqui , Adithya Basker , Malcolm Dias , Kushal Chavan , Nageshwar Avhad	295
57	2023002758	Human Following Carts (HFC) for multipurpose applications	Aqleem Siddiqui , Adithya Basker , Malcolm Dias , Kushal Chavan , Nageshwar Avhad	301

58	2023003664	Electronic Matadan: Blockchain Based E- Voting System	Shriya Deshmukh , Snehal Tagalpallewar, Shashwat Reshme, Yogant Patil and Rakhi Kalantri, Shagufta R	307
59	2023007121	MR Brain Tumour Classification Using a Deep Ensemble Learning Technique	Anilkumar B, N Pavan Kumar, K. Sowmya	312
60	2023007343	Comparative study on dry sliding wear investigation of NiCrBSiFeC and WC- Cr3C2-Ni coating against alumina	Sanjay W. Rukhande, Walmik S. Rathod, Digvijay G. Bhosale	318
61	2023007517	Uncovering of learner's confusion using EEG Data during online learning	Mr. Jeetendra Kumar, Dr. Rashmi Gupta	323
62	2023008031	Carbon Footprint: Causes, Impacts and sector wise survey	Parth Wadke, Vivek Gonal, Divesh Watwani, Prithviraj Chavan and Sunita Sahu	328
63	2023010865	The Spiffy – A Discord Chatbot	Sarvesh khamkar, Sarvesh Karekar, Junaid Kazi, Maitreyi Kulkarni and Dr. Trupti Lotlikar	334