

## ICNTE 2023 - TECHNICAL PROGRAM

<b>Track – Industrial Robotics and Automation</b>		
<b>Date: 20/01/2023, 11.30am – 1:30 pm</b>		<b>Venue: Conference Room - AX515B</b>
<b>Session Chair: Dr. Shripad P. Mahulikar</b>		
<b>Repertoire: Dr. Dhananjay Panchagade</b>		
<b>Sr. No.</b>	<b>Paper ID</b>	<b>Paper Title &amp; Author</b>
<b>1</b>	<b>86</b>	<b>Solar Panel Cleaning Robot</b> <i>Deepak Devasagayam, Jay Masal, Joshua Mendonce , Akash Singh , Shreyash Patil</i>
<b>2</b>	<b>97</b>	<b>Line Following Cart (LFC) for office applications</b> <i>Aqleem Siddiqui, Adithya Bhaskar, Malcolm Dias, Kushal Chavan, Nageshwar Avhad</i>
<b>3</b>	<b>98</b>	<b>Human Following Carts (HFC) for multipurpose applications</b> <i>Aqleem Siddiqui, Adithya Bhaskar, Malcolm Dias, Kushal Chavan, Nageshwar Avhad</i>
<b>4</b>	<b>106</b>	<b>Development of an Aquatic Robot for Cleaning Swimming Pools</b> <i>Mathewlal T., Samanta Dias, Firaz Bijle, Zaid Barwelka , Dominic Chettiar</i>

<b>Track – Communication Engineering, Embedded System and Advanced Materials and Physics of devices</b>		
<b>Date: 20/01/2023, 11:30 am – 1:30 pm</b>		<b>Venue: Conference room- AX501A</b>
<b>Session Chair: Dr. Nadir N. Charniya</b>		
<b>Repertoire: Prof. Anita Jadhav</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Author</b>
<b>1</b>	<b>38</b>	<b>A Review on Various Methods Employed to Measure Air Quality in the Vicinity Using Internet of Things.</b> <i>Swati Jha, Singh Anurag Brijesh, Sonkamble Archismati Dinkar, Ustad Zuber Makbu land Shukla Akash Rajesh</i>
<b>2</b>	<b>41</b>	<b>All inorganic lead-free perovskites for photocatalysis: Preparation and Absorption study.</b> <i>Suma Jebin , Swapna Gijare and Amrita Mandal Bera</i>
<b>3</b>	<b>61</b>	<b>IoT based Smart Security Helmet for Miner’s Safety.</b> <i>Sangharatna Bombarde, Pankaj Kunekar, Preyas Videkar, Viraj Khandagale, Yash Wagh, Prerana Waghmare and Y D Satyamedha</i>
<b>4</b>	<b>71</b>	<b>Design and Analysis of 8-bit Vedic Multiplier.</b> <i>Sayali Gharge , Shrutika Patel, Aditi Patil, Nidhi Mundhada, Vashnavi Shetty</i>
<b>5</b>	<b>83</b>	<b>Design and development of a small-scale EMU model with motorman cabin emulation.</b> <i>Harsh Chaudhary, Gokul Narayannan, Sarkazi Ayush Misra, Seema Jadhav and Mini Rajeev</i>
<b>6</b>	<b>142</b>	<b>Smart Gas Stove with inbuilt Safety Features.</b> <i>Pooja Chavan, Kartikraj Easwaran, HiteshMahajan, Prathamesh Jaitpal and MiniRajeev</i>

<b>Track –Power System, Power electronics and energy conversion, Manufacturing and Automation</b>		
<b>Date: 20/01/23, 11:30 am-1:30 pm</b>		<b>Venue: Conference room - AX514B</b>
<b>Session Chair: Dr. Pragati Gupta</b>		
<b>Repertoire: Dr. Mini N</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Author</b>
1	89	<b>Stability Analysis of Quadratic Boost Converter with Different Controllers</b> <i>Mahendra Rane, Rashmi Kale, Abhishek Shiwalkar</i>
2	90	<b>A Novel Approach for Operational Efficiency Assessment of Electrical Utilities</b> <i>Ninad P. Totare, Dr. Bindu. S</i>
3	92	<b>Design and Fabrication of IoT based Agricultural Automation system</b> <i>Suvarna Rode, Ritwik Saraf, Jason Veigas, Natesh Shetty, Srushti Shardul</i>
4	93	<b>Performance Characteristics Analysis for Solar PV Module</b> <i>Seema Jadhav, Ruchi Harchandani</i>
5	111	<b>Design of a Basic BMS: A Warning System</b> <i>Twinkle Pattnaik, Aditya Garg, Shivpal R. Verma, Makarand S. Ballal, Manish G. Wath, Sarvesh A. Wakode</i>
6	126	<b>IOT Based Solar Powered Automated Water Level Indicator and Distribution System</b> <i>Sarathi Padhy, Jayesh Rajam, Atharva Parulekar, Sreyas KV, Bipin Mashilkar</i>

<b>Track – Information and Computer Technologies</b>		
<b>Date: 20/1/2023, 11:30 am – 1.30 pm</b>		<b>Venue: Conference Room- AX-505B</b>
<b>Session Chair: Dr. S. Y. Ket</b>		
<b>Repertoire: Ms. Poonam Bari</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Authors</b>
1	24	<b>Secured Private Network Cyber-Security Application</b> <i>Savitri Bevinakoppa</i>
2	31	<b>Innovative Technology in Creating Liquid Hologram with Holofans</b> <i>Savitri Bevinakoppa</i>
3	43	<b>LSTM Network for Suicide Detection</b> <i>Aakash Gupta</i>
4	66	<b>Survey on Virtual Recruitment System</b> <i>Sharwari Amberkar, Mithilesh Dalvi, Amisha Gawand, Mimi Cherian</i>
5	72	<b>Sign Language Finger-Spelling Recognition System Using Deep Convolutional Neural Network</b> <i>Howal, Antara P; Golapkar, Atharva S; Khan, Mohammad Yunus; Bokade, Siddhantha Dileep; Varma, Satishkumar, Vyawahare, Madhura V</i>
6	134	<b>A Machine Learning Prediction Model for Envisaging Future Risk of Suicide</b> <i>Vivian Brian Lobo, Omkar Nikam, Shreyash Sanjay Singh, Swaraj Patil, Suryakrishnan Nair, Aniket Raut, Shraddha More, Ronald Laban</i>

<b>Track – Communication Engineering and Embedded System (Online)</b>		
<b>Date: 20/01/2023, 02:30 pm – 04:30 pm</b>		<b>Venue: Conference room- AX501A</b>
<b>Session Chair : Dr. Amit A. Deshmukh</b>		
<b>Repertoire : Prof. Manita Rajput</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Author</b>
1	25	<b>Indoor Positioning System Using LiFi Based Network for Mobile Robots.</b> <i>Dr. Washima Tasnin, Dev Shankar Paul</i>
2	47	<b>Smart Mail Access SMA-01.</b> <i>Calin Ciufudean, Corneliu Buzduga</i>
3	74	<b>Hand Gesture Controlled Automated Vehicle.</b> <i>Amruta Pabarekar, Tresa Biju, Mahima Beck Melba Vincent, and Steffi Mary</i>
4	76	<b>Building a modern microservices ecosystem for environmental monitoring using IOT sensors.</b> <i>Edwin Vincent, Gegory Gevargsee Dhumal Rahul Jadhav</i>
5	77	<b>Barricading System - System communication using gRPC and Protocol Buffers.</b> <i>Akshata Sangwai, Shreya sapale, Rahul Jadhav</i>

<b>Track – Power electronic converters, Power System (Online)</b>		
<b>Date: 20/01/23, 2:30 pm-4:30 pm</b>		<b>Venue: Conference room - AX514B</b>
<b>Session Chair: Dr Pragati Gupta</b>		
<b>Repertoire: Ms. Misbah Khan</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Author</b>
1	78	<b>Simulation study of cascaded h-bridge multilevel inverter with six switches</b> <i>Divya Sajeesh</i>
2	85	<b>Optimal Planning and Performance Analysis of Hybrid Energy System for Oil Tanker Ships</b> <i>Surajit Sannigrahi, Sriparna Roy Ghatak, Parimal Acharjee</i>
3	135	<b>A Novel Bidirectional Modified SEPIC Converter with Wide Voltage Conversion Ratio</b> <i>Sunil Mandal, Dr. Prajof P</i>
4	133	<b>Resilience Metrics for Integrated Energy Systems</b> <i>Puneet Pahadia, Abhishek Harit, Prerna Jain, Ashok Kumar Agarwal</i>

Track – Information and Computer Technologies (Online)		
Date: 20/1/2023, 2:30pm-4:30pm		Venue: Conference Room AX-505B
Session Chair: Dr. Sunita Patil		
Repertoire: Ms. Shagufta Rajguru		
Sr. No.	Paper Id	Paper Title & Authors
1	29	Support Vector Machine, Naïve Bayes, and Recurrent Neural Network to Detect Data Poisoning Attacks on Dataset <i>Ravina V Bhadle ,devichand punnu Rathod</i>
2	32	Face Recognition Based Attendance System <i>Harshada Sanjay Giri,Atharv Amar Vanjari ,Deepali Joshi,Priti Patil,Vishal Singh,Tejas Shinde</i>
3	73	A Survey on Smart City Surveillance System <i>Saeem Ansari, Faiz Ali, Manish Chaudhary, Karuna Varshney</i>
4	104	Detection and Classification of Diabetic Retinopathy using Deep Learning <i>Dhruvin Rajesh Dungrani, Harsh Rajesh Lotia, Dhairya Vibhav Parikh, Revathi A S, K.Kavitha</i>
5	120	Uncovering of learner’s confusion using EEG Data during online learning <i>Jeetendra Mr. Kumar,Dr. Rashmi Gupta</i>
6	129	Performance Analysis of Machine Learning and Deep Learning Techniques for Answer Type extraction of Marathi Questions <i>Dhiraj Amin,Dr.Sharvari S Govilkar,Sagar Rajendra Kulkarni</i>

Track – Information and Computer Technologies (Online)		
Date: 20/1/2023, 2:30pm-4:30pm		Venue: Conference Room AX-515B
Session Chair: Dr. Parikshit N. Mahalle		
Repertoire: Ms. Mukta Nivelkar		
Sr. No.	Paper Id	Paper Title & Authors
1	68	Sign Language Translator for Speech Impaired People <i>Vijay Mane, Tejas Adsare,Tejas Dharmik, Neeraj Agrawal, Dijasmit Patil, Prajwal Atram</i>
2	81	Flood Management System Using Cloud Computing and Internet-of-Things <i>Himanshu Rai Goyal, Sachin Sharma</i>
3	101	Educational chatbot on Data Structures and Algorithms for visually impaired <i>Lakshmi D Kurup, Vidhish Panchal</i>
4	127	Detecting Cybersecurity Attacks in Industrial Internet of Things: A Systematic Literature Review <i>Vijayalaxmi S Kumbhar, Maithili Andhare, Arti Tekade</i>
5	131	NFT For Collectibles <i>Karthik Venugopal, amratha M,Khrithik S Anand,Nidhish Lakhinana</i>

6	132	<b>Blockchain Based Crowdfunding Platforms - Exploratory Literature Survey</b> <i>Namratha M, Harsh Shankar Rao, Shaan Subbaiah, Pranjal Sinha, Prithvik Aniketh</i>
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<b>Track – Information and Computer Technologies</b>		
<b>Date: 21/1/2023, 9:45am- 11:45am</b>		<b>Venue: Conference Room AX501A</b>
<b>Session Chair: Dr. J. W. Bakal</b>		
<b>Repertoire: Ms. Shagufta Rajguru</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Authors</b>
1	37	<b>CAMERA DETECTION FOR BLIND PEOPLE USING OCR</b> <i>Yugal Vinod Urkude, Pankaj R Kunekar, Tanmay Khiratkar, Uday Sonwane, Sejal Nikhade, Utkarsha Mandlik, Tushar Gaikwad</i>
2	44	<b>Carbon Footprint: Causes, Impacts and sector wise survey</b> <i>Parth Wadke, Vivek Gonal, Divesh Watwani, Prithviraj Chavan, Sunita Sahu</i>
3	60	<b>Scrutinizing Machine Learning Models For Cancer Prediction</b> <i>Pankaj R Kunekar, Sankalp Vijay Ghadge, Smit Vikas Lahane</i>
4	65	<b>Content-Based Filtering Using K-Nearest Neighbour</b> <i>Pankaj R Kunekar, Rutuja Gajanan Taywade, Abhishek Tiwari</i>
5	82	<b>AI-based Desktop Voice Assistant</b> <i>Pankaj Kunekar, Ajinkya Deshmukh, Sachin Gajalwad, Aniket Bichare, Kiran Gunjal, Shubham Hingade</i>
6	112	<b>OCR based Cheque Validation using Image Processing</b> <i>Pankaj Kunekar, Kuldeep Vayadande, Onkar Kulkarni, Kunal Ingale, Rutik Kadam, Shantanu Inamdar</i>

<b>Track – Information and Computer Technologies</b>		
<b>Date: 21/1/2023, 9:45am- 11:45am</b>		<b>Venue: Conference Room AX-505B</b>
<b>Session Chair: Dr. S. K. Shinde</b>		
<b>Repertoire: Ms. Mukta Nivelkar</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Authors</b>
1	80	<b>Electronic Matadan: Blockchain Based E- Voting System</b> <i>Shriya Deshmukh, Yogant Patil, Shashwat Reshme, Snehal Tagalpallewar, Rakhi Kalantri, Shagufta R</i>
2	99	<b>Linear Regression Approach For Stock Chart Pattern Recognition</b> <i>Amay Tripathi, Jignesh Mathure, Shivam Deotarse, Darshak Rai, Lakshmi Gadhikar</i>
3	103	<b>AlgoViz: Algorithm Visualization</b> <i>Aakash Shivkumar Gupta, Prof. Madhura Vyawahare</i>
4	114	<b>Vyakranly- Hindi Grammar &amp; Spelling Errors Detection and Correction System</b> <i>Rachel S., Vasudha S., Shriya T., Rhutuja K., Lakshmi Gadhikar</i>

5	119	<b>A Survey On FAScam: FAStag Fraud Detection System</b> <i>Abhishek B Yadav, Siddhant S Gunjal, Tini Tomy, Alessandra Serpes</i>
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<b>Tracks – Manufacturing and Automation, Advanced Materials and Physics of devices</b>		
<b>Date: 21/1/2023, 9:45am- 11:45am</b>		<b>Venue: Conference Room - AX515B</b>
<b>Session Chair: Dr. S. D. Sharma</b>		
<b>Repertoire: Dr. Bharat Kale</b>		
<b>Sr. No.</b>	<b>Paper ID</b>	<b>Paper Title &amp; Author</b>
1	105	<b>Surface Properties Enhancement for Wear Resistance using Thermal Spray Coating</b> <i>Rupanjon Das Gupta , Ishaan Deshmukh , Ritu Khimasiya , Febin Wilson , Swaraj Gujar , Sanjay Rukhande</i>
2	115	<b>Design &amp; Development of Semi-Automated Multipurpose Electric Farming Bot</b> <i>Nilaj Deshmukh, Yash Kale, Chinmay Desai, Vaibhav Mistary, Tejas Sonawane, Praseed Kumar</i>
3	130	<b>Comparative study on dry sliding wear investigation of NiCrBSiFeC and WC-Cr3C2-Ni coating against alumina</b> <i>Sanjay W. Rukhande, Walmik S. Rathod, Digvijay G. Bhosale</i>

<b>Track – Information and Computer Technologies (Online)</b>		
<b>Date: 21/1/2023, 9:45am- 11:45am</b>		<b>Venue: Conference Room AX514B</b>
<b>Session Chair: Dr. Narendra Shekokar</b>		
<b>Repertoire: Ms. Priyamvada Singh</b>		
<b>Sr. No.</b>	<b>Paper Id</b>	<b>Paper Title &amp; Authors</b>
1	54	<b>Real-time Surveillance system using Face Recognition and AR</b> <i>Neelam chandolika</i>
2	113	<b>A comparative study on Diabetic Retinopathy Detection and Classification</b> <i>Samyak Shah, Shikha Punjabi, Shweta Chavan, Revathi A S, K. Kavitha(online)</i>
3	117	<b>Animal Healthcare And Farm Animal's Disease Prediction Using Machine Learning</b> <i>Muga Glenn S, Nadar Augustin, Sane Adishree Masih, Easther, Rukhande Smita</i>
4	122	<b>MRBrain Tumor Classification Using a Deep Ensemble Learning Technique</b> <i>Kuna Sowmya, Namburi Pavankumar, ANILKUMAR B</i>
5	123	<b>Exploiting Cyber Threats And Protecting Cryptocurrencies Toward Bitcoin Exchanges</b> <i>Vasudha Vaddadi Rani</i>