2021 IEEE India Council International Subsections Conference (INDISCON 2021)

Nagpur, India 27-29 August 2021



IEEE Catalog Number: CFP21DIN-POD **ISBN:**

978-1-6654-3834-6

Copyright © 2021 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: | CFP21DIN-POD |
|-------------------------|-------------------|
| ISBN (Print-On-Demand): | 978-1-6654-3834-6 |
| ISBN (Online): | 978-1-6654-3833-9 |

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



| 2021 IEEE India Council International Sub-Sections Conference (INDISCON) Nagpur, India | | | | |
|--|--|--|----------|------|
| Sl. No. | Title | Authors | Paper Id | Page |
| 1 | Effect Of Ilumination From LASER On Droplet Formation In Microchannel | Aishwarya Agarwal, Deepak Khushalani and Divya Shrivastava | 90 | 1 |
| 2 | Smart Gateway Screening for Covid-19 | Atique Ansari, Mustakim Ansari, Yash Mehta and Dr. Sunayana Jadhav | 80 | 6 |
| 3 | Designing and Analysis of a Competitive Game based Learning Application | Yahya Asadi, Gagan Babu, Poojary Shubham and Savitha Shenoy | 98 | 11 |
| 4 | Smart Accident Detection And Alert System | Arnav Chaudhari, Harsh Agrawal, Smiti Poddar, Kiran Talele and Manisha Bansode | 45 | 17 |
| 5 | Electromechanical Fuel Control Actuator Issues in Genset Application | Priyanka Choudhari, Pravin Talan, Pradnya Gaikwad and Parag Chaware | 97 | 21 |
| 6 | Development of Assistive Platforms for the Disabled using Brain Signatures | Snehal Dongare and Dinesh Padole | 120 | 26 |
| 7 | Jowar(Sorghum) Crop Health Assessment Using Hyperspectral Data | Divya Gadhe, Shweta Gadhe, Dhananjay Nalawade and Karbhari Kale | 93 | 31 |
| 8 | Indian Vehicle Number-Plate Recognition using Single Shot Detection and OCR | Sparsh Jain, Rishikesh Rathi and Rahul Chaurasiya | 113 | 37 |
| 9 | Smog Particulate Matter Detector Using ZigBee | Rujuta Amar Kelkar | 25 | 42 |
| 10 | Songs Recommendation using Context-Based Semantic Similarity between Lyrics | Dr Somesh Kumar, Vidit Gupta and Dr. Jeevaraj S. | 94 | 48 |
| 11 | Devanagari Handwritten Character Recognition | Mayank Mishra, Tanupriya Choudhury and Tanmay Sarkar | 47 | 54 |
| 12 | Implementation of a Navigational Path Planning Algorithm for an Autonomous Mobile Robot | Anushree Nilavar, Jyoti Bali, Arpitha Huggi, Arunkumar Giriyapur and Ashwini G K | 12 | 60 |
| 13 | TradeZilla Using Algorithmic Trading | Dheeraj Othalasseril and Sana Shaikh | 75 | 65 |
| 14 | FallStop - A deep learning approach to real-time fall detection and monitoring of vital parameters. | Samara Pires, Sonia Rodrigues and Sejal Chopra | 46 | 71 |
| 15 | Hindi Text To Speech Conversion | Eesha Poonja and Geeta Shet | 71 | 77 |
| 16 | Stock Trend Prediction Using News Headlines | Kameshwari S, Kaniskaa S, Kaushika S and R.Anuradha Radhakrishnan | 68 | 82 |
| 17 | A Case Study on the Performance of MPPT and Plug in Interconnected EV Charging Connected to University Power Distribution System | Ranjit Singh, L Ramesh and K Dhayalini | 64 | 87 |
| 18 | Geographical Crime Rate Prediction System | Sai Tarlekar, Elysia Dsouza, Rucha Bhosle and Sana Shaikh | 73 | 92 |
| 19 | Coverage Analysis of Cooperative Satellite-UAV-Terrestrial Communication System with Receiver Mobility | D Vasudha, Jesta Asritha, Anshul Maloo and Prabhat Kumar Sharma | 60 | 98 |
| 20 | Hyperspectral Image Unmixing for Land Cover Classification | Amol Vibhute, Sandeep Gaikwad, Karbhari Kale and Arjun Mane | 124 | 103 |
| 21 | Development of Efficient 5-HP BLDC motor for Solar water pump and performance comparison with Induction Motor counterpart | Ashok Wankhede, Saumitra Pal, Munendra Singh, Omkar Gogte, Archana Sharma and B G Fernandes | 102 | 108 |
| 22 | Automatic Lifting System for Crane Safety using Machine Learning | Samiksha Yede, Sujeet Kumar and Manisha Nimbalkar | 50 | 112 |