

2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA 2020)

**Mumbai, India
3 – 4 April 2020**



**IEEE Catalog Number: CFP2051W-POD
ISBN: 978-1-7281-2340-0**

**Copyright © 2020 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: | CFP2051W-POD |
| ISBN (Print-On-Demand): | 978-1-7281-2340-0 |
| ISBN (Online): | 978-1-7281-2339-4 |

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

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Contents

Oral Sessions

| | |
|--|----|
| A Framework for System Interfacing of Voice User Interface for Personal Computers | 1 |
| <i>Preet Dabre, Rohit Gonsalves, Raj Chandvaniya and Anant Nimkar</i> | |
| Combinatorial and Rectangular Layouts as Building Blocks for Local Reconstruction Codes | 7 |
| <i>Thomas Schwarz and John Rose</i> | |
| Estimation and Comparison of Module Temperature Model Coefficient for Different PV Technology Module | 13 |
| <i>Akshay Nichinte, Vishwesh Vyawahare and Dhiraj Magare</i> | |
| Word Transcription of MODI Script to Devanagari Using Deep Neural Network | 18 |
| <i>Shruti Sawant, Ankita Sharma, Geeta Suvarna, Talisha Tanna, and Snehal Kulkarni</i> | |
| Temperature Optimization in Non-isothermal Tubular Reactor Using Genetic Algorithm | 23 |
| <i>Gaurav Agrawal, Apurva Chaudhary and Ajaya Pani</i> | |
| Investigation of SEPIC Converter Using Fractional Order Control Technique | 27 |
| <i>Ashwini Raorane, Sushil Labde, Clara Arackel and Dhiraj Magare</i> | |
| PARTHA: A Visually Impaired Assistance System | 32 |
| <i>Devashish Khairnar, Rushikesh Karad, Apurva Kapse, Geetanjali Kale and Prathamesh Jadhav</i> | |
| Remote Sensor Networks for Chilli Crop Disease Prediction Using Thermal Image Processing Techniques | 38 |
| <i>Shafaque Syed, Ditty Varghese and Amiya Tripathy</i> | |
| Determination of Input Impedance of Two-Terminal Networks | 44 |
| <i>Tejmal Rathore, Sunil Jonwal and Jayasudha Koti</i> | |
| Analysis of Various Fast Adders Circuits with Cadence Simulation Technology | 50 |
| <i>Runali Poipkar, Sushma Kodagali and Trupti Agarkar</i> | |
| Automated Cardiac Disease Diagnosis Using Support Vector Machine | 56 |
| <i>Samir Yadav, Shivajirao Jadhav, Rohit Bonde and Shivani Chaudhari</i> | |
| 'Envision': Visual Representation System | 62 |
| <i>Sheetal Jaybhay, Dhruvi Jain, Siddhi Bhagat, Priya Chaudhari and Vanessa Dbritto</i> | |
| A Crowd Density Estimation Approach Using GPS Mobility for Its Dynamics and Predictions | 67 |
| <i>Vignesh Sundaram, Amiya Tripathy, Ram Deshmukh and Aditya Pawar</i> | |

| | |
|---|-----|
| Suspect Face Generation | 73 |
| <i>Harsh Jalan, Gautam Maurya, Canute Corda, Sunny Dsouza and Dakshata Panchal</i> | |
| Cybersecurity Behaviour of Smartphone Users Through the Lens of Fogg Behaviour Model | 79 |
| <i>Pintu Shah and Anuja Agarwal</i> | |
| Modified Feed Corner Truncated Square Microstrip Antenna for Circular Polarized Response | 83 |
| <i>Amit Deshmukh, Rutuja Patil, Rahul Maurya and Venkata Chavali</i> | |
| Modified Rectangular Microstrip Antenna for Wideband Response with Conical Radiation Pattern | 88 |
| <i>Amit Deshmukh, Venkata Chavali and Aarti Ambekar</i> | |
| Slot Loaded Triple Band Microstrip Antenna for GSM Application | 94 |
| <i>Amit Deshmukh, Aarti Ambekar and Venkata Chavali</i> | |
| Compact Octagonal Shped Monopole UWB MIMO Antenna with Dual Band-Notch Characteristics | 100 |
| <i>Pratik Ghandade, Siddharth Parkar, Ayushya Chauhan, Harshad Mhatre and Anjali Chaudhari</i> | |
| Proximity Fed Rectangular Microstrip Antenna Using Parasitic Semi-Circular Shaped Patches | 105 |
| <i>Amit Deshmukh and Sanjay Deshmukh</i> | |
| Microstrip Antenna Design Backed Modified Ground for Circularly Polarized Response | 110 |
| <i>Amit Deshmukh, Rahul Maurya, Rutuja Patil and Aarti Ambekar</i> | |
| Intuitive User Interface for Enhanced Search Experience | 115 |
| <i>Suraj Negi, Cydnelle Alemao, Shakhaf Joseph and Vincy Joseph</i> | |
| Safety App: Crime Prediction Using GIS | 120 |
| <i>Atharva Deshmukh, Sourab Banka, Sean Deruz, Sana Shaikh and Amiya Tripathy</i> | |
| Energy-efficient Face Recognition Authentication System Using Human Detection IoT Modules | 125 |
| <i>Nikhil Rao, Mohammad Rajan, Keith Rebello and Swapnil Gharat</i> | |
| IOT Based Smart Bus System | 130 |
| <i>Meet Shah, Rajesh Prasad and Aashutosh Singh</i> | |
| Surface Approximation Using Uniform Mesh Coarsening with Minimal Angles Enhancement | 135 |
| <i>Dakshata Panchal and Deepak Jayaswal</i> | |
| Context Relevancy Assessment in Tensor Factorization-based Recommender Systems . | 141 |
| <i>Vandana Patil and Deepak Jayaswal</i> | |
| A New Fast Method for Image Denoising Using KPE Vector Quantization and Its Comparison with LBG | 146 |
| <i>Rachana Dhannawat and Archana Patankar</i> | |

| | |
|---|------------|
| Evaluation of Deep Learning Methods (DnCNN and U-Net) for Denoising of Heart Auscultation Signals | 151 |
| <i>Taresh Sharan, Romel Bhattacharjee, Shiru Sharma and Neeraj Sharma</i> | |
| Estimating Consensus from Crowdsourced Continuous Annotations | 156 |
| <i>Santosh Chapaneri and Deepak Jayaswal</i> | |
| Detection of Beat Frequency in GPR Signal Using Zoom MUSIC | 162 |
| <i>Newton Fernandes and Ravindra Chaudhari</i> | |
| Skin Lesion Classification Using Deep Learning Architectures | 168 |
| <i>Abhishek Salian, Gulam Nasir, Shalaka Vaze, Pragya Singh, Santosh Chapaneri and Deepak Jayaswal</i> | |
| Encoder-Decoder Architecture for Image Caption Generation | 174 |
| <i>Harshit Parikh, Harsh Sawant, Bhautik Parmar, Rahul Shah, Santosh Chapaneri and Deepak Jayaswal</i> | |
| Distributed Decomposed Data Analytics of IoT, SAR and Social Network Data | 180 |
| <i>Vinayak Bharadi and Shashank Tolye</i> | |
| Solid Waste Management: Green Index Calculation and Route Optimization | 186 |
| <i>David Varghese, Priyanka Puranik, Sherin Palamattam and Sana Shaikh</i> | |
| Personality Assessment Using Social Media for Hiring Candidates | 192 |
| <i>Roshal Moraes, Larissa Pinto, Mrunal Pilankar and Pradnya Rane</i> | |
| Fusion of Selection Parameters for Customer Behavior Prediction Based on Web Usage Mining | 198 |
| <i>Snehal Kulkarni, Varsha Nagpurkar, Caroline Lopes, Riya Dodthi and Avril Lopes</i> | |
| EYERIS: A Virtual Eye to Aid the Visually Impaired | 202 |
| <i>Jinesh Shah, Aashreen Raorane, Akash Ramani, Hitanshu Rami and Narendra Shekokar</i> | |
| Coding Techniques for 5G Networks: A Review | 208 |
| <i>Mrinmayi Patil, Sanjay Pawar and Zia Saquib</i> | |
| Influence Maximisation in Social Networks Using Neighbourhood Degree Based Vote-Rank Approach | 214 |
| <i>Dipti Lohia, Ashutosh Krishna, Darsh Pratap and Sanjay Kumar</i> | |
| Plant Disease Detection: A Comprehensive Survey | 220 |
| <i>Maithili Desai, Sheona Das, Shreya Ghose, Anmolika Goyal and Radhika Chapaneri</i> | |
| Agriculture Field Monitoring and Plant Leaf Disease Detection | 226 |
| <i>Rohit Nalawade, Apoorv Nagap, Lakhan Jindam and Meena Ugale</i> | |
| Author Index | 232 |