

2022 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2022)

**Delhi, India
2 – 4 December 2022**



**IEEE Catalog Number: CFP22SOL-POD
ISBN: 979-8-3503-3225-4**

**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:	CFP22SOL-POD
ISBN (Print-On-Demand):	979-8-3503-3225-4
ISBN (Online):	979-8-3503-3224-7
ISSN:	2832-6547

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

Welcome Message	i
Organizers & Committees	ii-iii
Keynotes	iv-v
Workshops	vi
WiE Session	vii
Industry Session	vii
Author Index	viii-ix

Mapping Vulnerabilities of Indian Long-haul Truck Drivers

Ashutosh Singh and Saroj Koul

Publication Year: 2023, Page(s): 1-8

Auto-Encoders for Crowd Density Estimation

Kashika Akhouri, Samya Jain, Tanya Chhikara, Ritu Rani, Poonam Bansal and Arun Sharma

Publication Year: 2023, Page(s): 9-13

Intelligent Pedestrian Intention Prediction Framework

Neha Sharma, Chhavi Dhiman and S. Indu

Publication Year: 2023, Page(s): 14-18

Camera based Framework for Collision Avoidance in Intelligent Vehicles

Jitendra Kulaste and Ayesha Choudhary

Jacob Abraham and Zhengkui Wang

Publication Year: 2023, Page(s): 19-26

Diagnosis and Classification of Cancer using Machine Learning Techniques

Swati Mishra and Megha Agarwal

Publication Year: 2023, Page(s): 27-31

Detection of Road Potholes using Deep Learning based Improved YOLOv4 Network

Ruchi Tripathi, Indu Sreedevi and Rohit Kumar

Publication Year: 2023, Page(s): 32-37

Computer Vision and Deep Learning Based Framework for Road Scene and Surface Segmentation in Unstructured Environment

Vivek Kumar Paswan, Akash Chandra Gupta and Ayesha Choudhary

Publication Year: 2023, Page(s): 38-43

M-shaped Antenna for Intelligent Transport System Applications

Maxon Okramcha, Malay Ranjan Tripathy and Ravi Kumar Arya

Publication Year: 2023, Page(s): 44-47

Automated Evaluation Approach for Time-Dependent QA Pairs on Web Crawler based QA System

Shraddha Arora and Niladri Chatterjee
Publication Year: 2023, Page(s): 48-53

Pedestrian Trajectory Forecasting in Videos

Bharat Dadwaria and Ayesha Choudhary
Publication Year: 2023, Page(s): 54-58

Logistics and Site Service Operations - A Special Focus on Green Logistics and EHS in Reactive Power Management Industry

Ashish Chandra and Mukhtiar Singh
Publication Year: 2021, Page(s): 59-64

Robotic Electrothermal Microgripper with V- Beam Configuration for Handling Microobjects

Ramya S, Praveen Kumar S, Aravind T, Srinivasan T K, Lingaraja D and Dinesh Ram G
Publication Year: 2021, Page(s): 65-69

Simulation and Investigation of Wide-Band Piezoelectric MEMS Energy Harvester for Smart Electronic Applications

Dinesh Ram G, Praveen Kumar S, Srinivasan T K, Aravind T, Lingaraja D and Ramya S
Publication Year: 2023, Page(s): 70-73

A Greedy Task Allocation Mechanism for Time-Dependent Mobile Crowdsensing Systems

Moirangthem Goldie Meitei and Ningrinla Marchang
Publication Year: 2023, Page(s): 74-79

Camera based Automated Quality Assessment of Fruits for a Smart Home

Athulya Thulaseedharan and Ayesha Choudhary
Publication Year: 2023, Page(s): 80-85

Automation in Hydroponic Systems: A Sustainable Pathway to Modern Farming

Pooja Mahajan, Sanyam Gupta and Sameer Sachdeva
Publication Year: 2023, Page(s): 86-92

Interlinking Farm Produce and Stakeholders through QGIS Maps in Madurai

Yazhini Malar Pa, Bettina Helen R, Sathya Bama B, Mohammed Mansoor Roomi S and Vaishnavi M
Publication Year: 2023, Page(s): 93-99

Camera Based Indoor Object Detection and Distance Estimation Framework for Assistive Mobility

Vivek Kumar Paswan and Ayesha Choudhary
Publication Year: 2023, Page(s): 100-105

Tree Branch Shaped Triple Band ACS Fed MIMO Antenna for High Speed Data Application

Praveen V. Naidu, Naveen Kalasani, P. Hareesha, T. Dheeraj, E. Adithaya Vardhan and Aravind Kumar
Publication Year: 2023, Page(s): 106-111

Deploying Jenkins, Ansible and Kubernetes to Automate Continuous Integration and Continuous Deployment Pipeline

Neelam Singh, Aman Singh and Vandana Rawat
Publication Year: 2023, Page(s): 112-116

Cloud Classification Method based on Convolutional Encoder and Multimodal Feature Fusion

Yanfeng Li, Man Xu and Ming Fang

Publication Year: 2023, Page(s): 117-122

Proposition for Smart Healthcare Systems

Paritosh Mittal, Saru Dhir and Nitasha Hasteer

Publication Year: 2023, Page(s): 123-128

Prediction of Power Consumption at EV Charging Station Based on Deep Learning Algorithm

Arpana Singh, M. Rizwan and Uma Nangia

Publication Year: 2021, Page(s): 129-133

Exploring the Role of Conventional and Non-Conventional Technologies in Identifying MDD

Chetna Gupta and Vikas Khullar

Publication Year: 2021, Page(s): 134-139

5 and L Shaped ACS Fed MIMO Antenna with Improved Isolation and Diversity Metrics

Dr.Praveen Naidu Vummadisetty, Sri Hasa Bethina and Naveen Kalasani

Publication Year: 2023, Page(s): 140-146

Chatbot for Healthcare System Using NLP and Python

Yasir Abdullah R, Aravind Samy Selvaraj, Surya N and Harshad Ram T

Publication Year: 2023, Page(s): 147-153

Texture Classification using CNN and Dimensionality Reduction Techniques

Praveen Kumar and J Panda

Publication Year: 2023, Page(s): 154-157

Energy Efficient MAC Framework under Temporal Fading in WBAN

Manjot Kaur, Navneet Kaur and Rohit Bajaj

Publication Year: 2023, Page(s): 158-163

Dispensation of the Sum of Shadowed-Rician RV's and Applications in Satellite Communications

Prateek Anand and Arti M.K.

Publication Year: 2023, Page(s): 164-167

Leveraging Explainable Artificial Intelligence for Understanding the Effect of Model Capacity on Training Dataset Size

Tushar Prakash, Tashvik Dhamija, Jeebananda Panda and Rohit Kumar

Publication Year: 2023, Page(s): 168-173

Multi Objective Generation Dispatch for Bulky Thermal Power Plants Using Novel Corona Virus Optimization Algorithm

Himanshu Shekhar Maharana, Saroja Kumar Dash and Banalata Priyadarshini Deo

Publication Year: 2023, Page(s): 174-179

Wideband Slotted Monopole antenna for UHF RFID Reader

Maxon Okramcha, Malay Ranjan Tripathy and Ravi Kumar Arya

Publication Year: 2023, Page(s): 180-183

Byzantine attack detection in a WSN using Extended Kalman Filter

Lalit Agarwal, Bhavnesh Jaint and Madan Mohan Rayguru

Publication Year: 2023, Page(s): 184-189

Internet of Things based Smart Refrigeration System

Srinivasan C, G Harshasree, Chandra Yasaswini and Sandra Varshitha

Publication Year: 2023, Page(s): 190-193

Predicting Bitcoin Trends using Machine Learning and Deep Learning Algorithm via Continuous and Binary Data- A Comparative Analysis

Mrinal Anand, K Durga Devi, Yash Pandey, Aditya Choudhary and M Vidhyalakshmi

Publication Year: 2023, Page(s): 194-199

Half-Mode Substrate Integrated Waveguide-Based Band Stop Filter for Static Target Detection in X-Band

Piyush Kapoor, Shailesh Jayant, Amit Birwal, Vikram Kumar and Kamlesh Patel

Publication Year: 2023, Page(s): 200-203

Content Based Movie Recommendation System

Vibhanshu Tyagi, Prem Kumar and Megha Bhushan

Publication Year: 2023, Page(s): 205-209