

2020 International Conference on Innovative Trends in Information Technology (ICITIIT 2020)

**Kottayam, India
13 – 14 February 2020**



**IEEE Catalog Number: CFP20V96-POD
ISBN: 978-1-7281-4211-1**

**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:	CFP20V96-POD
ISBN (Print-On-Demand):	978-1-7281-4211-1
ISBN (Online):	978-1-7281-4210-4

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

**International Conference on Innovative Trends In Information Technology
(ICITIIT-20)**

CONTENTS

Pg. No	Paper Id	Paper Title	Authors
Day I - Venue: 1: IoT and Communications (1:30 - 3:00PM)			
1	9	Spatial Correlation based Data Redundancy Elimination for Data Aggregation in Wireless Sensor Networks	Radhakrishnan Maivizhi, Palanichamy Yogesh
6	315	A novel approach to detect IoT malware by system calls using Deep learning techniques	M.Shobana, S.Poonkuzhali
11	83	Hybrid Spatio-temporal Deep Learning Framework for Particulate Matter(PM2.5) Concentration Forecasting	Abirami S, Chitra P
17	89	Early Prediction of Parkinson's Disease (PD) Using Ensemble Classifiers	Ms.Anisha.C.D, Dr. Arulanand N
23	39	Improved the efficiency of agriculture by introducing energy harvesting using IoT in WSN	Madhvi Saxena, Subrata Dutta
Day I - Venue: 2: Cloud and Data Science (1:30 - 3:00PM)			
28	269	Hybrid Cloud :A Cost Optimised Solution To Cloud Interoperability	S.M.Barhate, M.P.Dhore
33	273	Scalable Infrastructure and Workflow for Anomaly Detection in an Automotive Industry	Anshul Jindal, Michael Gerndt
39	333	A Review of the state-of-the-art methods for Privacy Preserved Classification in Outsourced Environment	Vijayendra Sanjay Gaikwad , Dr. K. H. Walse, Dr. V. M. Thakare
N/A	217	Secrecy Outage Performance of Spatial Modulation based Energy Harvested Bidirectional Cooperative Cognitive Radio System in Nakagami-m Fading Environment	Renjith R J, P G S Velmurugan, S J Thiruvengadam
45	297	Minimizing Jitter in TDM over PSN Networks- Statistical Approach	R. Manivasakan, Syed Junaid, Surya Meghana Yennapu
51	335	Carbon Credits on Blockchain	Dr.Dhiren Patel, Sanidhya Sharma, Yash Dusing, Benita Britto, Kaustubh Gaikwad, Mrinal Gupta

Day I - Venue: 1: Signals and Electronics (3:30-4:30 PM)			
56	93	Dominant Feature Prediction By Improved Structural Similarity Computation	Dr. K. Indra Gandhi, Janarthanan S, Sathish R, Surendar A
61	201	An Efficient Overflow Handling Technique for Histogram Shifting based Reversible Data Hiding	V. M. Manikandan, P. Renjith
67	255	A Clustering based Framework for Fast Training of Classifiers	Sruthi Sathyamoorthy, Dr. E. Sivasankar
Day I - Venue: 2: Antenna and Electronics (3:30-4:30 PM)			
N/A	299	Towards Software-Defined Peer-to-Peer Content Delivery Network for Adaptive Video Streaming	Rishabh Jain, Akhilesh Kumar, Shashwati Banerjea, Mayank Pandey
73	369	Bidirectional Vehicle Platooning Based Intelligent Transportation System	Dr. R. Avudaiammal, K. Jasmine Mystica, Krishna Chaitanya Akella, M.Arun Gokul
79	379	Achieve High Data Rate by Using Optical Modem in Under Water Wireless Communication	A.Shyamalapasanna, R.Velnath.;B. Ragavi, L. Pavithra, K.Mohanapriya, P. Santhiyadevi
Day II - Venue:1: Signals and Electronics (9.30:00AM - 10:30 AM)			
84	289	Multi-Label Classification using Deep Convolutional Neural Network	A. Agnes Lydia, F. Sagayaraj Francis
90	303	Image Object Retrieval using SIFT and R-CNN	Amitha I C, N K Narayanan
95	311	Image Recognition and Annotation based Decision Making of CAPTCHAs for Human Interpretation	S.Ezhilarasi, Dr.P.Uma Maheswari
101	291	Dumpster: Predictive Model to trade Bio-waste from Agricultural Lands	Kanmani A, Karthicka Priyadarshni J. K., Praharsha S,

			Mano Dharshan M. P., Deeraj Kumar K. K, Abirami A. M
Day II - Venue:2: IoT and Communications (9.30:00AM - 10:30 AM)			
107	385	Automatic Farming for minimum water usage and animal protection using solar fencing wiith GSM	Ms. Gopika Nair, Mrs. Mayuri Chawla, Dr.Narendra Bawane
113	387	Solar Powered Automated Multi-Tasking Agricultural Robot	Jerosheja B R, Shijinu Harsha S.U, Saraswathi P, Dr.Mythili C
N/A	405	Fog Computing Based Smart Agricultural Decision Support System Using Iot Technology	U Sakthi, D Manohari
118	337	Predicting Potential Applicants for any Private College using LightGBM	Surya Pratap Singh, Puran Singh, Atul Mishra
Day II - Venue:1 : Cloud and Data Science (11:00AM - 12:30PM)			
N/A	345	Comparison and performance evaluation of selected lightweight block ciphers	Deepu Job, Dr. Varghese Paul
123	357	Singlow: Simulator For General Network Flow Problems	S Raghavan, Paras Bhagtya, K Chandrasekaran
129	427	Optimised KYC Blockchain System	N.Sundareswaran, S.Sasirekha, I.Joe Louis Paul, S.Balakrishnan, Swaminathan.G
135	447	Optimizing the Computational Offloading Decision in Cloud-Fog Environment	Mohammad Irfan Bala, Mohammad Ahsan Chishti
Day II - Venue:2 : Signals and Electronics (11:00AM - 12:30PM)			
140	389	Analysis and review of effectiveness of metaheuristics in task scheduling process with delineating machine learning as a suitable alternative	Shantanu A. Lohi, Dr. Nandita Tiwari, Dr. Varsha Namdeo, Snehal A. Lohi
146	431	Role of Contextual Features in Fake News Detection: A Review	Joma George, Shintu Mariam Skariah, Aleena Xavier T
152	433	Detection of Microanuerysm in Retina Image using Machine Learning Approach	Deepa R, N.K.Narayanan

157	429	Investigation of Energy Management and Optimization Using Penalty Based Reinforcement Learning Algorithms for Textile Industry	Padma Priya R, Rohan Menon
Day II - Venue:1 : IoT and Communications (2:00PM - 3:15PM)			
N/A	107	Thermal Energy Harvesting Using CMOS Techniques For Internet Of Medical Things	Dhanusa Sri Sudhagaran, D. Gracia Nirmala Rani
165	207	ZnO Schottky Thin Film Transistors: Single Gate and Dual Gate Frameworks and Electrical Characterizations: A Comparative Analysis	Sukanya Ghosh, Dr. Lintu Rajan
171	231	Simulation Based Investigation of Sensing Current with Channel Length and Work function Variation to Realize Hydrogen Detection	Sukanya Ghosh, Dr. Lintu Rajan
N/A	325	Performance Investigation of Capacitive Wireless Charging Topologies for Electric Vehicles	Kodeeswaran S, Nandhini Gayathri M
Day II - Venue:2 : Signal and Electronics (2:00PM - 3:15PM)			
176	341	An Extension For PRISM Model Checker To Reduce Computation Time For Steady State Probability Analysis	Debjani Ghosh, Satya Sankalp Gautam
N/A	351	Crop Recommendation and Yield Prediction by Assessing Soil Health from Ortho-photos	Visali AL, Dhalia Sweetlin J, Mohan Kumar S G, Sruthi Sreeram, Jyothi Prasanth D R, Kowshalya S
182	353	Analysis & Evaluation of Image filtering Noise reduction technique for Microscopic Images	Tulasi Gayatri Devi, Nagamma Patil
N/A	355	Lbph Based Person Re-Identification Using K-Reciprocal Encoding	R.Mallika@Pandeewari , V.Manimaran , K.G.Srinivasagan, S.Babu Renga Rajan