2018 Fourteenth International Conference on Information Processing (ICINPRO 2018)

Bangalore, India 21 – 23 December 2018



IEEE Catalog Number: CFP18O38-POD ISBN: 978-1-5386-7797-1

Copyright © 2018 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:
 CFP18O38-POD

 ISBN (Print-On-Demand):
 978-1-5386-7797-1

 ISBN (Online):
 978-1-5386-7796-4

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



Table of Contents

Fourteenth International Conference on Information Processing (ICInPro) – 2018

Track – I: Internet of Things

1.	Botnets Detection using Back Tracking in Wired Networks Deepthi Vidiyala, Bindu Guntupalli and BKSP Kumar Raju Alluri	01 – 05
2.	Identification and Isolation of Crypto Ransomware using Honeypot Venkatesh J, V Vetriselvi, Ranjani Parthasarathi and G Subrahmanya VRK Rao	06 – 11
3.	IoT based Smart Security for the Blind Roshan Fernandes, Anisha P Rodrigues and Sudeepa K B	12 – 15
4.	Occupancy Estimation Using Sensor Data Analytics Diksha Bathula, Divya Bansal, E Biphul Krishna and Divya Lohani	16 – 21
5.	A Low Complex Symmetric Key Algorithm for Securing Data using Linked List Tegala Sravani and Kusam Bhavitha	22 – 26
6.	Health Monitoring and Immediate Assistance Smart Bot for Elderly People using SLAM Aman Malhotra and Bhuvan Bhardwaj	27 – 31
7.	IoT Enabled Smart Wearable Device - Sukoon Rittwik Sood, Preetjot Kaur, Shubham Sharma, Asif Mehmuda and Ashok Kumar	32 – 35
8.	Trip-O-Plan: A Comprehensive Automatic Task Rescheduling based Mobile Application Luv Sharma, Jitendra Singh and Rajalakshmi Krishnamurthi	N/A
9.	Automated Testing for Launch Vehicle Instrumentation Renjith Das and A. Ferdinand Christopher	41 – 44
10.	A Survey on Green Internet of Things Krishna Shah and Zunnun Narmavala	45 – 48
11.	An Access Control System using Visual Cryptography and Steganography Gargee Bhase and Ramchandra S. Mangrulkar	49 – 54
12.	Measuring Resources and Workload Skew in Micro-service MPP Analytic Query Engine	55 – 60
	Nikunj Parekh, Swathi Kurunji and Alan Beck	
13.	Assorted Cat Swarm Optimisation for Efficient Resource	
	Allocation in Cloud Computing Deepak Kumar Sharma, Arushi Garg and Aparna Jha	61 – 66
	•	

14.	3D Ranging and Tracking using an Improved Lensless Smart Sensor Lizy Abraham, Andrea Urru, Mariusz P. Wilk, Michael Walsh and Brendan O'flynn	67 – 70
15.	SWAKSH: An Automatic Vacuum Cleaner Siddharth Srivastava, Ayushi Nigam, Monika Arya, and Shalini Lamba	N/A
16.	Ameliorations in MaxProp Routing Protocol in Delay-tolerant Networks Deepak Kumar Sharma, Sarthak Agrawal and Vaibhav Bansal	75 – 79
17.	Effect on Range of Zigbee Network due to Height of Coordinator and End Nodes	80 – 84
	Soma Pandey, Sumit Garethiya, Abhishek M.R and Govind R Kadambi	
18.	A Novel Hybrid Lightweight Block Cipher Shweta Pawar, Shreekhand Wankhede and Yugandhara Sulakshane	N/A
19.	SLURM Auto Installer Divya M G, Soundararajan A Pamban, Gokulteerthan M and Natraj A C	N/A
20.	SSSS: Search for Social Similar Smart Objects in SIoT Roopa M S, Darshill Valla, Rajkumar Buyya, Venugopal K R, S S Iyengar and L M Patnaik	95 – 100
21.	SARRC: Secure Auditing and Re-signing of Revoked Customer Chunks by Cloud Using Regression Method Geeta C M, Usharani, Shreyas Raju R G, Raghavendra S, Rajkumar Buyya, Venugopal K R, S S Iyengar and L M Patnaik	101 – 106
	Track – II: Data Science	
22.	Multiclass Classification to Predict the Level of Storm and Damages using Support Vector Machine Hriddhi Kulkarni, Bhargavi Kumbham and Jangam J S Mani	107 – 111
23.	Aspect based Sentiment Analysis on Product Reviews Anisha P Rodrigues and Niranjan N Chiplunkar	112 – 117
24.	Method for Generating Cancelable IRIS Template by Utilizing Binary Filter Munaga V N K Prasad and Alugolu Jyothi	118 – 123
25.	A Copy Move Forgery Detection Scheme Based on Dynamic SURF Feature Detection and Block Matching Munaga V N K Prasad and Pratyusha D	124 – 129

26.	Household Food Consumption Behavior: Based on Indian Human Development Survey Vijaya Kumar G and Sangita Khare	N/A
27.	Retinal Eye Disease Detection Using Deep Learning Lorick Jain, H V Srinivasa Murthy, Chirayush Patel and Devansh Bansal	137 – 142
28.	Machine Learning based Early Detection of Age-Related Macular Degeneration: Early Warning System Deepthi K Prasad, Vibha L and Venugopal K R	143 – 148
29.	ChEMBL Bot - A Chat Bot for ChEMBL Database Vidhya Murali, Rohith Jayakumara Sarma, Paarul A Sukanya and Prashanth Athri	149 – 154
30.	Cascaded Pooling for Convolutional Neural Networks Nilakshi Devi and Bhogeswar Borah	155 – 159
31.	Opinion Mining on Feedback System of BEAMS Arti Deshpande, Heena Bhatia, Pallavi Borkar and Vivek Nawle	N/A
32.	Managing Fake Item Posts in Online Classified Ads by Image Classification using Convolutional Neural Network Shushant Kumar, Anmol Horo and K Chandrasekaran	N/A
33.	Optimization Based Feature Generation for Handwritten Odia-numeral Recognition Dibyasundar Das, Ratnakar Dash and Banshidhar Majhi	173 – 177
34.	A Case Study on Measurement of Software Product Quality Karuna P, Mangala N and Divya M G	N/A
35.	Human Resource Management System: A Case Study on an Information Management Design Sanjay Jyoti Dutta, Joydip Sarmah and Nelson R Varte	N/A
36.	IronSense: Towards the Identification of Fake User-Profiles on Twitter using Machine Learning Abhishek Narayanan, Anmol Garg, Isha Arora, Tulika Sureka, Maniula Sridhar and Prasad H B	189 – 195
37.	Older Adults and The Authenticity of Emails:	
	Grammar, Syntax, and Compositional Indicators of Social Engineering in Ransomware and Phishing Attacks Premankit Sannd and David M. Cook	196 – 200
38.	A Convolution Neural Network based Classifier for Diagnosis of Alzheimer's Disease	201 – 206
	Vinutha N, Santosh Pattar, Akash Aggarwal, Chiranjeev Kumar, P Deepa Shenoy and Venugopal K R	

Poster papers

39.	Performance Analysis of Chaotic Map Algorithms Comparison of Efficiency of Line Map, Bakers and Cat Algorithm for Image	
	Cryptography S Kshipra Prasadh, Shantanu Chakole and V Noor Mohammed	207 – 208
40.	Impact of Avalanche Effect in DES and UES Sri Ram Polisetty, Venkateswara Rao Gurrala, Swamy Gurrala, S Chakravarthy Manyala and Vijaya Madhuri Manyala	N/A
41.	Smart Kitchen Garden using "BloThrough" at a Low Cost Yash Kumar and Elizabeth Rufus	211 – 213
42.	Credit Risk Analysis using Machine Learning Techniques Shiv S. J., Srinivasa Murthy and Krishnaprasad Challuru	214 – 218
43.	IoT Enabled Smart Gardening Nikhil Sukhdev, Naman Nahata, Sunil Sridhara and Gnana Swamy	219 – 220
44.	Semantic Segmentation of Human Body using Generative Adversarial Neural Networks Priyansha Pathak, Raja Mathanky S, Priyanka Narendra and Srinivasa Murthy	221 – 222
45.	Ontology based Service Discovery for Intelligent Transport Systems using Internet of Things Santosh Pattar, Sandhya C R, Darshill Vala, Rajkumar Buyya, Venugopal K R, S S Iyengar and L M Patnaik	223 – 225