## 2021 2nd International **Conference on Computation, Automation and Knowledge Management (ICCAKM 2021)**

**Dubai, United Arab Emirates** 19 – 21 January 2021



**IEEE Catalog Number: CFP21AKM-POD ISBN**:

978-1-7281-9492-9

## 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:
 CFP21AKM-POD

 ISBN (Print-On-Demand):
 978-1-7281-9492-9

 ISBN (Online):
 978-1-7281-9491-2

## **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



S. No.	TITLE	PAGE No
	Sales Forecast of Manufacturing Companies using Machine Learning navigating the	
1	Pandemic like COVID-19	1
	Prabhat Sharma, Shreyansh Khater, Vasudha Vashisht	
	Paper id 002	
	Dynamic analysis of an observation tower subjected to wind loads using ANSYS	
2	Shahida Anusha Siddiqui, Ali Ahmad	6
	Paper id 004	
	Processing of Remote Sensing Ocean Parameter Using Downscaling and Machine Learning	
3	Techniques	12
	Sivasankari Manickavasagam, Dr. R. Anandan	
	Paper id 008	
	Sharding Database for Fault Tolerance and Scalability of Data	
4	Bahaa Mahmoud Abdelhafiz, Dr. Mourad Elhadef, Ph.D.	17
	Paper id 010	
	Knowledge Transfer in UAE Higher Education Institutions During Covid-19 Pandemic:	
5	Learners' Cannot Learn Surgery by Watching	25
	Rajasekhara Mouly Potluri, Mahwish Anjam	
	Paper id 015	
	Arabic Speech Emotion Recognition Method Based On LPC And PPSD	
6	Omar Ahmad Mohammad, Mourad Elhadef, Ph.D.	31
	Paper id 016	
	Complexity of Risk Management in Danish Power Transmission Industry: Managing	
7	Disregarded and Minor risks	37
	Lucas Peter Høj Brasen, Torben Tambo	
	Paper id 017	
	Analysis of Emotion Recognition from Cross-lingual Speech: Arabic, English, and Urdu	
8	Moomal Farhad, Heba Ismail, Saad Harous, Mohammad Mehedy Masud, Azam Beg	42
	Paper id 019	
	Precision Medicine Blockchained: A Review	
9	Faiza Hashim, Saad Harous	48
	Paper id 020	
	Performance Evaluation of different Algorithms for Crack Detection in Concrete Structures	
10	Luqman Ali, Saad Harous, Nazar Zaki, Wasif Khan, Fady Alnajjar, Hamad Al Jassmi	53
	Paper id 021	
	Classification of Different Stages of Diabetic Retinopathy using Convolutional Neural	
11	Networks	59
	P. Saranya, K.M. Umamaheswari, Dr. M. Sivaram, Chirag Jain, Debarpan Bagchi	
	Paper id 024	
	End-to-End Elimination of Traffic Elimination Using Self-Adaptive Prediction Model in Cloud	
12	K.M. Umamaheswari, M. Sivaram, V. Manikandan, K. Batri, P. Saranya, V. Porkodi	65
	Paper id 025	
	Forensic Block Chain and it's linkage with Artificial Intelligence: A new Approach	
13	Nikitha Mani, Soham Sanjay Parab, Srikuja Manaswini, Sharon Philip, Parli B Hari, Nrashant	70
	Singh	
	Paper id 034	

	A theoretical workflow for the verification of embedded threats on mobile devices	
14	Michelle Ann Joseph, Sharon Philip, Bryan Miranada, Amol Deshmukh, Nrashant Singh	75
	Paper id 035	
	Design Of Estimator For Level Monitoring Using Data Driven Model	
15	Vighnesh Shenoy, Santhosh K V	81
	Paper id 036	
	Incremental Multi-Feature Tensor Subspace Learning Based Smart Traffic Control System	
16	and Traffic Density Calculation Using Image Processing	87
	Dr. G. Suseendran, Dr. D. Akila, Dr. D. Balaganesh, Dr. V. R. Elangovan, V. Vijayalakshmi	
	Paper id 039	
	Advanced FFT architecture based on Cordic method for Brain signal Encryption system	
17	Dr. Souvik Pal, Dr. G. Suseendran, Dr. D. Akila, Dr. R. Jayakarthik, T. Nusrat Jabeen	92
	Paper id 040	
	Developing Mapping and allotment in Volunteer Cloud systems using Reliability Profile	
18	algorithms in a virtual machine	97
	Dr. S. Jeyalaksshmi, Dr. M. S. Nidhya, Dr. G. Suseendran, Dr. Souvik Pal, Dr. D. Akila	
	Paper id 041	
	Heart atherosclerosis detection using FCM+kMeans Algorithm	
19	Dr. V. R. Elangovan, Dr. A. J. Rajeswari Joe, Dr. D. Akila, Dr. K. Hema Shankari, Dr. G. Suseendran	102
	Paper id 042	
	A Neuro-fuzzy based Medical Intelligent System for the Diagnosis of Hepatitis B	
20	Dalwinder Singh, Sahil Verma, Jimmy Singla	107
	Paper id 044	
	Securing Vehicular Ad-Hoc Networks: A DDoS Case Study	
21	Wedad Ahmed Al-Dhuraibi, Prof. Mourad Elhadef	112
	Paper id 046	
	Biometric Authentication With Finger Vein Images Based On Quadrature Discriminant	
22	Analysis	118
	D. Akila, Dr. S. Jeyalaksshmi, Dr. R. Jayakarthik, S. Mathivilasini, Dr. G. Suseendran	
	Paper id 048	
	Prediction based Load Balancing and VM Migration in Big Data Cloud Environment	
23	P. Tamilarasi, Dr. D. Akila	123
	Paper id 050	
	Heterogeneous Fair Resource Allocation and Scheduling for Big Data Streams in Cloud	
24	Environments	128
	R Kiruthiga, Dr. D Akila	
	Paper id 053	
	Credit Card Fraud Detection System based on Operational & Transaction features using SVM	
25	and Random Forest Classifiers	133
	C. Sudha, Dr. D. Akila	
	Paper id 055	
	Prediction Performance of Crime Against Women Using Rule Based Decision Tree J48	
26	Classification Algorithms in various states of India	139

	Mrs. S. Lavanya, D. Akila	
	Paper id 056	
	Graphical Framework For Review Spammer Group Detection Using Metadata	
27	Thahira A, Sabitha S	145
	Paper id 057	
	A Review of Cyber Securities in Smart Grid Technology	
28	Asif Iqbal Kawoosa, Dr. Deepak Prashar	151
	Paper id 058	
	Design and Implementation Issues in Autonomous Vehicles- A Comparative Review	
29	Najamul Saqib, Mir Mohammad Yousuf, Mamoon Rashid	157
	Paper id 060	
	Application of Computational Technique to Assess the Performance of Staff for Sustainable	
30	Business	163
	Nagaraju Dasari, Mahendra Parihar	
	Paper id 061	
	Smart Access Card system to mitigate the Covid-19 Outbreak	
31	Fathimath Shahina C.A., Saifudeen A Kabeer	168
	Paper id 062	
	Enhancing Marketing Strategies and Analytics Through Artificial Intelligence	
32	Dr. Anubhuti Gupta, Dr. Komal Tomar	174
	Paper id 063	
	Reforming fixed asset database in university using SQL database management system	
33	Dr. T. Varun, Dr. G. Suseendran	180
	Paper id 064	
	Integration of NIC algorithms and ANN: A review of different approaches	
34	Ramandeep Kaur, Amar Singh, Jimmy Singla	185
	Paper id 066	
	Recent Routing Approaches for WMN's: A State of Art	
35	Bhanu Sharma, Amar Singh, Jimmy Singla	191
	Paper id 067	
	Analyzing COVID-19 Dataset through Data Mining Tool "Orange"	
36	Uzma Thange, Vinod Kumar Shukla, Ritu Punhani, Wonda Grobbelaar	198
	Paper id 073	
	Importance Of Intelligent Automation In Post COVID Era: A Study	
37	Ravinder Kumar, Kawin Singh V, Harish K, Bhavish R K	204
	Paper id 082	
	A Study on Indicators for Open Innovation Performance in Food Processing SMEs in India	
38	through AHP Approach	210
	Supriya Lamba Sahdev, Prof. Dr. Gurinder Singh, Dr. Navleen Kaur	
	Paper id 083	
	Towards Technology Attitude comparison of Hungarian and Indian Student for Real-Time	

39	Chaman Verma, Zoltán Illés, Veronika Stoffová, Viktoria Bakonyi	216
	Paper id 086  Telecommunication & Networking – Changing Customer Profile & Preferences	
40	Anupam Mehrotra, Satish Menon	221
.0	Paper id 089	
	Review and analysis of data security using image steganography	
41	Bharat Kapila, Tejinder Thind	227
	Paper id 097	
	Impact of Influencers on Consumer Behaviour: empirical study	
42	Priya Govindan, Ibrahim Alotaibi	232
	Paper id 103	
	Efficient Feature Selection Technique based on Fast Fourier Transform with PSO-GA for	
43	Functional Magnetic Resonance Imaging	238
	Mamoon Rashid, Harjeet Singh, Vishal Goyal	
	Paper id 110	
	Second Round of FinTech - Trends and Challenges	
44	Anupam Mehrotra, Satish Menon	243
	Paper id 111	
	Digital Conservation: Unravelling Tourists' Expectation from Online Amenities of	
45	Sunderbans Tiger Reserve, India	249
	Ananya Ghosh, Dr. Pankaj Kumar Tyagi, Dr. Pawan Gupta	
	Paper id 113	
	Analysing the Opportunities for Technological Entrepreneurship: A Conceptual Framework	
46	for Hospitality-Housekeeping Industry	254
	Priyanka Verma, Dr. Malini Singh, Dr. Neeraj Aggarwal	
	Paper id 114	
	IoT Based Weather Monitoring System Using Arduino-UNO	
47	Lipsa Das, Akhilesh Kumar, Saurav Singh, Ahmad Raheel Ashar, Rishab Jangu	260
	Paper id 115	
	Novel Detection Technique For Framejacking Vulnerabilities In Web Applications	
48	Asra Kalim, C. K. Jha, Deepak Singh Tomar, Divya Rishi Sahu	265
	Paper id 116	
	Single sink position in wireless sensor networks	
49	Deghima Manel, Lemia Louail, Saad Harous	271
	Paper id 119	
	Gas Leakage Source Localization and Boundary Estimation using Mobile Wireless Sensor	
50	Network	276
	Subhash Kumar, Sameer Chouksey	
	Paper id 120	
	Automatic Speaker Recognition using Deep Neural Network Classifiers	
51	Abdikarim Ali Moumin, Smitha S Kumar	282

	Paper id 121	
	Geo-SID: A new Geocast Safety Information Dissemination protocol in VANET for urban	
52	areas	287
	Oussama Senouci, Zibouda Aliouat, Saad Harous	
	Paper id 123	
	Investigating TikTok as an AI user platform	
53	Mark Eugine Z. Francisco, Sonakshi Ruhela	293
	Paper id 125	
	Laying the table from the cloud during Lockdown: Impact of Covid crisis on Cloud Kitchens in	
54	India	299
	Dr. Alka Maurya, Dr. Geetha Subramaniam, Dr. Sweta Dixit	
	Paper id 129	
	Annular liquid sheets and its dynamics - A review	
55	Raveendran Meloth Swaroop, Kizhakkelan Sudhakaran Siddharth	303
	Paper id 130	
	Educational Association Mining on the Use of Media Platforms for e-Learning	
56	Aparna Agarwal, Raza Hasan, Vikas Rao Naidu, Mohammed Saqib, Shyamala Srinivas, Karan	309
	Jesrani	
	Paper id 131	
	Establishing link between Talent Development Practices and Organizational Performance	
57	Rajeev Ranjan Mishra, Dr. Malini Singh, Dr. Sanjeev Kumar	315
	Paper id 141	
	Monetizing Personal Brand for Business Success, Financial Security and Career Longevity-	
58	Sentiment Analysis in COVID 19 Era	321
	Dr Navleen Kaur, Supriya Lamba Sahdev, Prof. Dr. Gurinder Singh, Nisha Tokas	
	Paper id 147	
	Key element in online education to activate students with real-time tools	
59	Viktória Bakonyi, Zoltán Illés, Chaman Verma	326
	Paper id 155	
	Phrases based Document Classification from Semi Supervised Hierarchical LDA	
60	Rohit Agarwal	332
	Paper id 166	
	Analysis of thermal energy storage system to achieve net zero energy building in Composite	
61	Climate	338
	Jaspal Singh, R.K. Tomar, N. D. Kaushika	
	Paper id 176	
	Quicker Sort Algorithm: Upgrading time complexity of Quick Sort to Linear Logarithmic	
62	Dr. Sandeep Kumar Budhani, Dr. Naveen Tewari, Dr. Mukesh Joshi, Kshitij Kala	342
	Paper id 178	
	· ·	
	Comparative study of Automotive Sensor technologies used for Unmanned Driving	

	Paper id 179	
	Bitcoin: An Investment Management Tool – Comparison between risk and average returns	
64	of different financial assets with BTC	351
	Dr. Navleen Kaur, Supriya Lamba Sahdev, Prof. Dr. Gurinder Singh, Ashna Garg	
	Paper id 181	
	Integration of Artificial Intelligence into software reuse: An overview of Software	
65	Intelligence	357
	Amandeep Kaur Sandhu, Ranbir Singh Batth	
	Paper id 182	
	Development of Hindi Mnemonics for generating private keys used in Hierarchical	
66	Deterministic wallets	363
	Rajeev Kanday, Ranbir Singh Batth	
	Paper id 184	
	Program Controls Effectiveness Measurement Framework & Metrics	
67	Abhinav Palia, Caroline Devlin, Megan Yelorda, Angela Morrison	369
	Paper id 185	
	Enhancement of Retinal Image by Hybrid Approach	
68	Manjot Kaur, Dr. Amit Kamra	374
	Paper id 240	