

**Symbiosis Institute of Computer Studies and Research**  
**Research Publications**  
**2023**

S.N.	Name of Authors(All authors in the same sequence as on paper)	Title of the Article	Source title (Name of Journal/Conference Proceedings/Book)	Publisher Name	Type
1	B. Bhuvaneshwari, Balamurugan Balusamy, Rajesh Kumar Dhanaraj, Vinayakumar Ravi	Artificial intelligence enabled Luong Attention and Hosmer Lemeshow Regression Window-based attack detection in 6G	International Journal of Communication Systems	Wiley	Journal
2	Sarika Sharma and D P Goyal	Startup-India: an exploratory analysis of issues, challenges, and the road ahead	International Journal of Entrepreneurship and Small Business	Inderscience	Journal
3	Kaur, Veerpal , Bhatt, Devershi Pallavi , Tiwari, Pradeep Kumar & Tharewal, Sumegh	Blockchain technology combined with the CNN and Hashing algorithms enabled the secure storage of 3D biometric face and ear data	Journal of Discrete Mathematical Sciences and Cryptography	Taru Publications ( TAYLOR & FRANCIS)	Journal
4	Vaishali A. Kherdekar, Sachin A. Naik, Prafulla Bafna	A Segmentation-based Token Identification for Recognition of Audio Mathematical Expression	International Journal of Advanced Computer Science and Applications(IJACSA)	Science and Information Organization	Journal
5	Kriti Vashistha; Anuja Bokhare	Detection of coronary artery disease using machine learning algorithms	International Journal of Modelling, Identification and Control	Inderscience	Journal
6	Arjun Singh, Surbhi Chauhan, Shashi Kant Dargar, Sumegh Tharewal, Vitthal Sadashiv Gutte, Pradeep	Blockchain enabled security mechanism for preventing data forgery in IoT-based smart homes	Journal of Discrete Mathematical Sciences and Cryptography	Taru Publications and Taylor and Francis	Journal

	Kumar Tiwari, Sonam Gupte				
7	Prof Dr. Jatinderkumar R Saini, Preety Shalla, Hema Gaikwad	A Novel Approach for Identification of Figurative Language Types in Devanagari Scripted Languages	International Journal of Advanced Computer Science and Applications	SAI- The science and information organization	Journal
8	Amol D. Vibhute and Karbhari V. Kale	Mapping several soil types using hyperspectral datasets and advanced machine learning methods	Results in Optics	Elsevier	Journal
9	Prathamesh Lahande; Parag Kaveri; Jatinderkumar Saini	Reinforcement Learning for Reducing the Interruptions and Increasing Fault Tolerance in the Cloud Environment	MDPI	Informatics	Journal
10	Kherdekar, V.A., Naik, S.A., Bafna, P.	A Segmentation- based Token Identification for Recognition of Audio Mathematical Expression	IJACSA	SAI	Journal
11	Sarika Sharma, Archana Singh, Sonica Rautela	Social media marketing adoption by unorganised businesses in India: a technology adoption model- based approach	International Journal of Entrepreneurship and Small Business	Inderscience	Journal
12	Anamika Singh, Rajesh Kumar Dhanaraj, Md. Akkas Ali, Prasanalakshmi Balaji, Meshal Alharbi	Transfer Fuzzy Learning enabled Streebog Cryptographic Substitution Permutation based zero trust security in IIOT	Alexandria Engineering Journal	elsevier	Journal
13	Kumari Deepika, Dr. Deepika Punj, Dr. Jyoti Verma,	Performance Optimization of Feature Extraction for Palm and Wrist	International Journal of Pattern Recognition and Artificial Intelligence	World Scientific	Journal

	Dr. Anuradha Pillai	in Multimodal Biometrics: A Systematic Literature Review			
14	Rajesh Kumar Dhanaraj, Md.Akkas Ali, Anupam Kumar Sharma & Anand Nayyar	Deep Multibranch Fusion Residual Network and IoT-based pest detection system using sound analytics in large agricultural field	Multimedia Tools and Applications	Springer	Journal
15	Jatinderkumar R. Saini, Ms. Hema Gaikwad	A Generic Tool for Identification of Indo-Aryan Multi Word Expression	Springer Nature Computer Science	Springer	Journal
16	Arvindhan Muthusamy, Rajesh Kumar Dhanaraj	Dynamic Q-Learning-Based Optimized Load Balancing Technique in Cloud	Mobile Information Systems	Hindawi	Journal
17	Binju Saju, Neethu Tressa, Rajesh Kumar Dhanaraj*, Sumegh Tharewal, Jincy Chundamannil Mathew and Danilo Pelusi	Effective multi-class lungdisease classification using the hybridfeature engineering mechanism	Mathematical Biosciences and Engineering	aimspress	Journal
18	Lahande P., Kaveri P., Saini J.R., Kotecha K., Alfarhood S	Reinforcement Learning Approach for Optimizing Cloud Resource Utilization with Load Balancing	IEEE Access	IEEE	Journal
19	Meenal K Jabde, Chandrashekhar H Patil, Amol D Vibhute, Shankar Mali	An online multilingual numeral dataset on Devnagari and English languages for pattern recognition research	Data in Brief	Elsevier	Journal
20	E. Gangadevi • R. Shoba Rani	Spot-out fruit fly algorithm with simulated annealing	Neural Computing and Applications	Springer	Journal

	Rajesh Kumar Dhanaraj	optimized SVM for detecting tomato plant diseases			
21	Riyadh Rahef Nuiiaa Al Ogaili, Esraa Saleh Alomari, Manar Bashar Mortatha Alkorani, Zaid Abdi Alkareem Alyasseri, Mazin Abed Mohammed, Rajesh Kumar Dhanaraj, Selvakumar Manickam, Seifedine Kadry, Mohammed Anbar & Shankar Karuppayah	Malware cyberattacks detection using a novel feature selection method based on a modified whale optimization algorithm	Wireless Networks	Springer	Journal
22	Saini J.R., Roy S.	Preparation of Rich Lists of Research Gaps in the Specific Sentiment Analysis Tasks of Code-mixed Indian Languages	SN Computer Science	Springer	Journal
23	Pawar, S., Agarwal, S., & Bafna, P.	Analytical Study of Effects on Business Sectors During Pandemic-Data Mining Approach	Conference	Springer	Conference
24	Panwar, S.N. , Goyal, S. , Bafna, P.	Analytical Study of Starbucks Using Clustering	Conference	Springer	Conference
25	Sarika Sharma, Vipin Tyagi, Anagha Vaidya	Technology Enabled Self-directed Learning: A Review and Framework Sarika	International Conference on Advances in Computing and Data Sciences (ICACDS)-2023	Springer CCIS	Conference
26	Kumari Deepika, Dr. Deepika Punj, Dr. Jyoti	Spatial Domain Method for Image Analysis: A Grey-Level Computation Approach	International Conference on Advances in Computing and Data	Springer CCIS	Conference

			Sciences (ICACDS)-2023		
27	Yashoda Barve, Jatinderkumar R. Saini	Anonymous Spreaders Detection of False Information using Incremental Learning Approach	8th International Conference on Communication and Electronics Systems (ICCES-2023), Coimbatore, India	IEEE, USA	Conference
28	Rutuja G. Rathod; Yashoda Barve; Jatinderkumar R. Saini; Sourav Rathod	From Data Pre-processing to Hate Speech Detection: An Interdisciplinary Study on Women-targeted Online Abuse	IEEE 3rd International Conference for Intelligent Technologies (CONIT-2023), Hubballi, India	IEEE, USA	Conference
29	Rajesh Kumar	Deep Learning Based Speculative Analysis of Diverse Nature Inspired Optimization Algorithms in Agriculture	2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA)	IEEE	Conference
30	Amol D Vibhute, Karbhari V Kale, Sandeep V Gaikwad, Arjun V Mane	Machine Learning Approach for Road-Line Extraction in Complex Urban Environments from High-Resolution Hyperspectral Image	First International Conference on Advances in Computer Vision and Artificial Intelligence Technologies (ACVAIT 2022)	Atlantis Press	Conference
31	Malathy Sathyamoorthy; C N Vanitha; Rajesh Kumar Dhanaraj; Feslin Anish Mon; Priti Rai	Smart Aero Generator Monitoring System using IoT	2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)	IEEE	Conference
32	C N Vanitha; Malathy Sathyamoorthy; Rajesh Kumar Dhanaraj; Priti Rai; Geetha V; M. Manikantan	Exploration of Ripe Raw and Defective Tomatoes with Deep Learning Techniques	2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)	IEEE	Conference
33	Sarika Sharma, Vipin Tyagi, Anagha Vaidya	Technology Enabled Self-directed	International Conference on Advances in	Springer CCIS	Conference

		Learning: A Review and Framework	Computing and Data Sciences		
34	Shubham Bhange, Kumbhar Vidya , Sachin Naik	Predicting Foreign Exchange Rates Using Machine Learning Techniques	ICT Infrastructure and Computing. ICT4SD 2023. Lecture Notes in Networks and Systems, vol 754. Springer, Singapore	Springer, Singapore	Conference
35	Prithi Samuel; Rajesh Kumar Dhanaraj; Balamurugan Balusamy; Narmatha C	Dark Vision Assistive Application for Deaf-Blind People	Conference Proceedings	IEEE	Conference
36	K. Sujigarasharma; M. Lawanya Shri; E. Gangadevi; Rajesh Kumar Dhanaraj; Narmatha C; Balamurugan Balusamy	Detection and Classification of Speech Disorder using FOA-SCNet	3rd International Conference on Computing and Information Technology (ICCIT)	IEEE	Conference
37	Raj M.P., Pandey K., Saini J.R.	Accuracy Assessment of Machine Learning Algorithms in Assorting Agricultural Crops using Remote Sensing	IEEE International Conference on Contemporary Computing and Communications (InC4-2023), Bengaluru, India	IEEE	Conference
38	S Priyanka, Anuja Bokhare , Kriti Bhatia and Ronell Salunke	Prediction model for stock using Machine learning algorithm	3rd ASIANCON 2023	IEEE	Conference
39	Anuja Bokhare and Vishwadeep Jhala	Predicting the Impact of Advertisement on Sales using Machine Learning	3rd ASIANCON 2023	IEEE	Conference
40	Prathamesh Vijay Lahande, Parag Ravikant Kaveri	Mathematical model for improving Cloud Load Balancing using scheduling algorithms	ICNSBT 2023	Springer	Conference

41	Rajesh Kumar Dhanaraj 1 , Paramasivam A 2,* , Vijayalakshmi S 3 , Emmanuel C 4 , Pittu Pallavi 5 , Metkewar P S 6 and Ashwin Manoj 7	Design and Implementation of a IoT based Smart Digestive Health Monitoring device for Identification of Digestive Conditions	MDPI 10th International Electronic Conference on Sensors and Applications	MDPI	Conference
42	Rajesh Kumar Dhanaraj , Md. Akkas Ali	Deep Learning enabled Pest Detection System Using Sound Analytics in Internet of Agricultural Things	10th International Electronic Conference on Sensors and Applications	MDPI	Conference
43	Timothy Malche , Sumegh Tharewal , Rajesh Kumar Dhanaraj	Automated Damage Detection on Concrete Structures using Computer Vision and Drone Imagery	10th International Electronic Conference on Sensors and Applications	MDPI	Conference
44	Lakhani S (SICSR) Rajashree Jain Jatinderkumar R. Saini	The LoRa based IoT Communication Model for Smart Farming	Third International Conference on Advances in Physical Sciences and Materials (ICAPSM 2022)	AIP	Conference
45	Anuja Bokhare	Clearance Date Prediction Using Machine Learning Techniques	Handbook of Research on AI and Machine Learning Applications in Customer Support and Analytics	IGI Global	Book Chapter
46	Rajesh Kumar Dhanaraj	Introduction to Homomorphic Encryption for Financial Cryptography	Book Chapter	Springer	Book Chapter
47	Rajesh Kumar Dhanaraj	Fault diagnosis in digital twin manufacturing	Digital Twin for Smart Manufacturing	Elsevier	Book Chapter
48	Rajesh Kumar Dhanaraj	Critical Factors Leading to Sustainable	Sustainable Digital Technologies	taylor&francis	Book Chapter

		Initiatives in the Global Market			
49	Prathamesh Vijay Lahande, Parag Ravikant Kaveri	Novel Image Cryptography Method to Improve Security in Cloud Computing	Lecture Notes in Networks and Systems	Springer Nature	Book Chapter
50	Malathy Sathyamoorthy, C N Vanitha, Rajesh Kumar Dhanaraj, Balamurugan Balusamy	Introduction to Cyborgization Systems	Artificial Intelligence in IoT and Cyborgization	Springer	Book Chapter
51	Samaya Venkatesh Iyengar, Pradnya Purandare, Rajashree Jain	Digital Twin-Enabled Solutions for Smart City Applications	Handbook of Research on Network-Enabled IoT Applications for Smart City Services	IGI Global	Book Chapter
52	Seethalakshmi, Rajesh Kumar Dhanaraj, S. Suganyadevi, Mariya Ouaissa	Homomorphic Encryption for Financial Cryptography Recent Inventions and Challenges	Book	Springer	Book
53	Rajesh Kumar Dhanaraj	Digital Twin for Smart Manufacturing	Book	Elsevier	Book
54	Rajesh Kumar D	Artificial Intelligence for Future Intelligent Transportation Smarter and Greener Infrastructure Design	Book - Artificial Intelligence for Future Intelligent Transportation Smarter and Greener Infrastructure Design	Apple Academic Press	Book
55	Rajesh Kumar Dhanaraj, Bharat S. Rawal, Sathya Krishnamoorthi, Balamurugan Balusamy	Artificial Intelligence in IoT and Cyborgization	Book	Springer	Book