	Symbiosis Institute of Computer Studies and Research 2024 Research Publications							
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	Document Type			
1	Balamurugan Balusamy, Rajesh Kumar Dhanaraj, Tamizharasi Seetharaman , Vandana Sharma , Achyut Shankar, Wattana Viriyasitavat	Design control and management of intelligent and autonomous nanorobots with artificial intelligence for Prevention and monitoring of blood related diseases	Engineering Applications of Artificial Intelligence	Elsevier	Journal			
2	L. Godlin Atlas, K.P. Arjun. Sampath Kumar , Rajesh Kumar Dhanaraj , Anand Nayyar	Deep learning enabled hemorrhage detection in retina with DPFE and splat segmentation in fundus images	Biomedical Signal Processing and Control	Elsevier	Journal			
3	Deshpande M.M.; Bafna, Prafulla B.	Development and Evaluation of Extended Text Pre-processing Techniques for Hindi Document Clustering.	International Journal of Intelligent Systems and Applications in Engineerin	Ismail Saritas	Journal			
6	Rajashree Jain,Minal Abhyankar, MVV Prasad Kantipudi, Rajanikanth Aluvalu, Mahesh S. Raisinghani,	Measurement of Student Engagement in a Generic and Online Learning Management System-Based Environment	International Journal of Online Pedagogy and Course Design	IGI Global	Journal			
7	Vibhute, A.D., Kale, K.V., Gaikwad, S.V.	Machine learning- enabled soil classification for precision agriculture: a study on spectral analysis and soil	Applied Geomatics	Springer Science and Business Media Deutschland GmbH	Journal			

8	2. Almahadin, G.,	property determination Enhancing Video	SN Computer	Springer	Journal
0	Subburaj, M., Hiari, M., Sathasivam Singaram, S., Kolla, B. P., Dadheech, P., Vibhute A. D., & Sengan, S.	Anomaly Detection Using Spatio-Temporal Autoencoders and Convolutional LSTM Networks	Science	Nature	Journal
9	1. Vibhute, A. D., Khan, M., Kanade, A., Patil, C. H., Gaikwad, S. V., Patel, K. K., & Saini, J. R.	An LSTM-based novel near-real- time multiclass network intrusion detection system for complex cloud environments	Concurrency and Computation: Practice and Experience	John Wiley and Sons Ltd	Journal
13	S Balaji,S Jeevanandham,Mani Deepak Choudhry,M Sundarrajan,Rajesh Kumar Dhanaraj	Data Aggregation through Hybrid Optimal Probability in Wireless Sensor Networks	EAI Endorsed Transactions on Scalable Information Systems	EAI	Journal
15	Ruby Chanda, Vanishree Pabalkkar, Sarika Sharma	Attitude and behavioral intention for using metaverse in education: learner's perspective	Journal of Applied Research in Higher Education	Emerald	Journal
16	Balasubramaniam S, Arishma M, Satheesh Kumar K, Rajesh Kumar Dhanaraj	A Comprehensive Exploration of Artificial Intelligence Methods for COVID-19 Diagnosis	EAI Endorsed Transactions on Pervasive Health and Technology	EAI	Journal
20	Kanani P., Saini J.R., Sankhe D., Patil D., Pandya G., Nanade A, Shah B.	Assessing AODV Protocol Suitability for Collision Avoidance Systems	International Journal of Intelligent Systems and Applications in Engineering	IJISAE Publications	Journal

24		Duomourstian		Contractor	ا م سر ما
21	Saini J.R., Roy S.	Preparation of Rich Lists of Research Gaps in the Specific Sentiment	SN Computer Science	Springer	Journal
		Analysis Tasks of Code-mixed Indian Languages			
23	Sathya Krishnamoorthi · Rajesh Kumar Dhanaraj · SK Hafizul Islam	CCM-PRNG: Pseudo-random bit generator based on cross- over chaotic map and its application in image encryption	Multimedia Tools and Applications	Springer	Journal
24	Md. Akkas Ali, Anupam Kumar Sharma , Rajesh Kumar Dhanaraj	Heterogeneous features and deep learning networks fusion-based pest detection, prevention and controlling system using IoT and pest sound analytics in a vast agriculture system	Computers and Electrical Engineering	Elsevier	Journal
27	Dr. Shilpa Bhaskar Mujumdar, Dr. Haridas Acharya, Dr. Shailaja Shirwaikar and Dr. Prafulla Bharat Bafna	Assessing impact of problembased learning using data mining to extract learning patterns	Journal of Applied Research in Higher Education	Emerald	Journal
28	Balasubramaniam S, Seifedine Kadry, Rajesh Kumar Dhanaraj, Satheesh Kumar K & Chinnadurai Manthiramoorthy	Res-Unet based blood vessel segmentation and cardio vascular disease prediction using chronological chef-based optimization algorithm based deep residual network from retinal fundus images	Multimedia Tools and Applications	Springer	Journal

35	Rajesh Kumar Dhanaraj, Anamika Singh & Anand Nayyar	Matyas–Meyer Oseas based device profiling for anomaly detection via deep reinforcement learning (MMODPAD-DRL) in zero trust security network	Computing	Springer	Journal
36	K. P. Arjun, K. Sampath Kumar, Rajesh Kumar Dhanaraj , Vinayakumar Ravi	Optimizing time prediction and error classification in early melanoma detection using a hybrid RCNN- LSTM model	Microscopy Research and Technique	Wiley	Journal
42	<ol> <li>Shilpa Bhaskar Mujumdar *, 2) Haridas Acharya, 3) Shailaja Shirwaikar,</li> <li>Prafulla Bharat Bafna</li> </ol>	Assessing impact of problem-based learning using data mining to extract learning patterns	Journal of applied research and higher education	Emerald	Journal
45	Jabde, M.K., Patil, C.H., Vibhute, A.D., Mali, S.	A Comprehensive Literature Review on Air-written Online Handwritten Recognition	International Journal of Computing and Digital Systems	University of Bahrain	Journal
48	Md. Akkas Ali, Rajesh Kumar Dhanaraj Seifedine Kadry	Al-enabled IoT- based pest prevention and controlling system using sound analytics in large agricultural field	Computers and Electronics in Agriculture	Elsevier	Journal
50	Ashu Taneja; Shalli Rani; Rajesh Kumar Dhanaraj; Lewis Nkenyereye	GCIRM : Towards Green Communication With Intelligent Resource Management Scheme for Radio Access Networks	IEEE Transactions on Green Communications and Networking	IEEE	Journal

EO	Ativa Khan	Manning Cran	International	University of	Journal
59	Atiya Khan, Chandrashekhar H.	Mapping Crop Types At a 10 m	International Journal of	University of Bahrain	JOULUI
				Dallialli	
	Patil, Amol D.	Scale Using	Computing and		
	Vibhute and Shankar	Sentinel-2 Data	Digital Systems		
	Mali	and Machine			
		Learning Methods			
60	Nabila Sehito, Yang	Optimizing User	IEEE Transactions	IEEE	Journal
	Shouyi,Lewis	Association,	on Consumer		
	Nkenyereye,Rajesh	Power Control	Electronics		
	Kumar Dhanaraj	and Beamforming			
		for 6G Multi-IRS			
		Multi-UAV NOMA			
		Communications			
		in Smart Cities			
61	S. Aanjan Kumar,	Application of	Multimedia Tools	Springer	Journal
	Monoj Kumar	hybrid capsule	and Applications		
	Muchahari, S.	network model			
	Poonkuntran, L.	for malaria			
	Sathish Kumar,	parasite detection			
	Rajesh Kumar	on microscopic			
	Dhanaraj P.	blood smear			
	Karthikeyan	images			
67	Sarika Sharma,	Moderating	International	Inderscience	Journal
	Shreya Virani	effects of gender,	Journal of Business		
		entrepreneurship	and Globalisation		
		education, and			
		parent's			
		profession on			
		start-up			
		intentions: a			
		theory of planned			
		behaviour-based			
		approach			
72	Sarika Sharma and	Moonlighting	Journal of	Inderscience	Journal
	Sonica Rautela	intentions from IT	environment,	Publishing	
		professional's	workplace and	0	
		perspective:	employment		
		Mediating role of	1 - 1 - 2		
		organizational			
		commitment			
73	Sarika Sharma,	Employee	Journal of	Emerald	Journal
	Sonica Rautela	Moonlighting: A	Management		
		research Agenda	Development		
		research Agenua	Development		

75	Amutha Prabakar Muniyandi; Balamurugan Balusamy; Rajesh	Privacy Preserved Reinforcement Learning Model Using Generative	IEEE Transactions on Consumer Electronics	IEEE	Journal
	Kumar Dhanaraj Lewis Nkenyereye	AI for Personalized E- Learning			
80	Puneet Kumar, Bhoopesh Singh Bhati, Rajesh Kumar Dhanaraj, Celestine Iwendi, Balamurugan Balusamy, Nitesh Singh Bhati, and Prerana Rai	Feature subset selection using heuristic and metaheuristic approaches for diabetes prediction on a binary encoded dataset	International Journal of Modeling, Simulation, and Scientific Computing	World Scientific Publishing Co Pte Ltd	Journal
4	1. Ali, Md. A., Dhanaraj, R. K., Sharma, A. K., Balusamy, B., V, G., & Grover, V	Multi-Module Deep Learning and IoT-Based Pest Detection System Using Sound Analytics in Large Agricultural Field	International Conference on Electrical, Electronics, Communication and Computers (ELEXCOM)	IEEE	Conference
5	2. Singh, A., Dhanaraj, R. K., Sharma, A. K., Balusamy, B., Sharma, G., & Agrawal, S	Q-Learning Based Network Access Policy Management for Zero Trust Security in IIoT	2023 International Conference on Electrical, Electronics, Communication and Computers (ELEXCOM).	IEEE	Conference
10	Kanwalpreet Kour; Jhansi Bharathi Madavarapu; Mudita; Deepali Gupta; Rajesh Kumar Dhanaraj; Shilpa Saini	Design of Sensor Based Walnut Cracking Device and By-Product Classification via K-Means	6th International Conference on Contemporary Computing and Informatics (IC3I)	IEEE	Conference
11	Y Barve, Jatinderkumar R. Saini, R Rathod, Hema Gaikwad	multimodal misinformation detection: an exhaustive review	7th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Conference

12	Anuja Bokhare, Aishwarya Kulkarni and Madhuri Rao	An Empirical Investigation of the Sales- Promotion Relationship: Modeling Factors through Linear Regression Analysis	6th International Conference on Contemporary Computing and Informatics	IEEE	Conference
14	Tanishka Hemant Chopra and Prathamesh Vijay Lahande	Performance Evaluation of Service Broker Policies in Cloud Computing Environment Using Round Robin	International Conference on Soft Computing and its Engineering Applications	Springer, Cham	Conference
17	Audichya M., Saini J.R.	Ensemble Incremental Model for Misinformation Detection in Healthcare	7th International Conference On Computing, Communication, Control And Automation (ICCUBEA-2023), Pune, India	IEEE	Conference
18	Roy S., Saini J.R.	A Review of Challenges in Aspect Based Sentiment Analysis Sub-tasks in Resource- scarce Indian Languages	7th International Conference On Computing, Communication, Control And Automation (ICCUBEA-2023), Pune, India	ieee	Conference
19	Audichya M., Saini J.R.	ChatGPT for Creative Writing and Natural Language Generation in Poetry and Prose	ChatGPT for Creative Writing and Natural Language Generation in Poetry and Prose	3rd International Conference on Advanced Computing Technologies and Applications (ICACTA- 2023), Mumbai, India	Conference

22	Shrikant Mapari	A Neural Network-Based Framework to	ISBM 2023: Proceedings of World Conference	Springer Publication	Conference
		Recognize the Handwritten Chemical	on Information Systems for Business		
		Expression	Management		
29	Ashima Arya; Rajesh	Navigating the	Intelligent	IEEE	Conference
	Kumar Dhanaraj;	Metaverse:	Computing and		
	Sapna Juneja; Shilpa	Trends and	Control for		
		Opportunities in	Engineering and		
		2023	Business Systems		
			(ICCEBS)		
30	Malathy	Augmented	Intelligent	IEEE	Conference
	Sathyamoorthy;	Reality Based	Computing and		
	Rajesh Kumar	Medical	Control for		
	Dhanaraj; C N	Education	Engineering and		
	Vanitha; Lalitha		Business Systems		
	Krishnasamy		(ICCEBS)		
31	Milind Talele;	Review of Face	2023 Intelligent	IEEE	Conference
	Rajashree Jain; Priti	Emotion	Computing and		
	Kulkarni	Recognition Using	Control for		
		Feature	Engineering and		
		Extraction	Business Systems		
22		Techniques	(ICCEBS)		Canfananaa
32	Aditya Tuteja;	Cost Effective and	2023 IEEE 11th	IEEE	Conference
	Ananya U A; Merlin	Customizable	Region 10 Humanitarian		
	Saja Samuel; Rajashree Jain	Smart Irrigation System Using IoT			
	Rajasillee Jalli	System Using IUT	Technology Conference (R10-		
			HTC)		
33	Anuja Bokhare , P S	Identifying Best	Information	Springer	Conference
00	Metkewar	Goalkeepers	Systems for	opingei	comercine
		Problem is a NP-	Business		
		Hard?.	Management		
34	Anuja Bokhare,	Modelling Stock	International	Springer	Conference
	Madhuri Rao, M.	Prices Prediction	Conference on		
	Pavie Oliver Rohit	with Long Short	Artificial		
	Rai, Umang Adesara	Term Memory	Intelligence: Theory		
		(LSTM): a Black-	and Applications		
		Box Approach			
37	Monica Dutta; P S	Mapping Smart	International	IEEE	Conference
	Metkewar; Rajesh	Vertical Farming	Conference on		
	Kumar Dhanaraj;	in Cultivation of	Advances in		
	Deepali Gupta;	Herbaceous	Computation,		
	Sapna Juneja	Medicinal Plants	Communication and		
			Information		
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		using Bibliometric Analysis	Technology (ICAICCIT)		
38	Mudita Uppal; P S Metkewar; Rajesh Kumar Dhanaraj; Kanwalpreet Kour; Deepali Gupta; Shilpa Saini	ESSS: Energy Saver Smart Shoes for Energy Harvesting using Multi-Sensors Technique	International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	IEEE	Conference
39	Md. Akkas Ali; Anupam Kumar Sharma; Rajesh Kumar Dhanaraj	A High Accuracy Deep Learning and lot Network for Pest Detection Using Analysis of The Pest Sound in Large Agriculture Area	International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	IEEE	Conference
40	P S Metkewar; N Uma; Rajesh Kumar Dhanaraj; Balasubramanian Prabhu Kavin; Malathy Sathyamoorthy	Facial Expression Recognition in the Wild using Artificial Rabbits Optimizer based Residual Neural Network	International Conference on Advances in Computation, Communication and Information Technology	IEEE	Conference
41	M. Chandraprabha; Rajesh Kumar Dhanaraj	Deep Learning Based Bagged CNN with Whale Optimization Algorithm to Forecast the Productivity of Rice Crop using Soil Nutrients	International Conference on Advances in Computation, Communication and Information Technology	ieee	Conference
43	Milind Talele, Rajashree Jain,Priti Kulkarni	Review of Face Emotion Recognition Using Feature Extraction Techniques	Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India,	IEEE	Conference

44	Khan, A., Patil, C.H., Vibhute,	A U-Net Based Approach for	International Conference on Soft	Springer Science and	Conference
	A.D., Mali, S.	High-Accuracy	Computing and its	Business	
		Land Use Land	Engineering	Media	
		Cover	Applications,	Deutschland	
		Classification in	icSoftComp 2023	GmbH	
		Hyperspectral			
46	Prakash O., Saini J.R.	Remote Sensing A Novel Manned	Sardar Patel	AIP	Conference
40	FTakash O., Sahh J.N.	Drone Design	International	Conference	conterence
		with a Legal	Conference on	Proceedings	
		Perspective	"Industry 4.0 -		
			Nascent		
			Technologies		
			andSustainability		
			for 'Make in India'		
			Initiative" (SPICON-		
			2022), Mumbai,		
47	Cagar D. Caini I D	A Three-	India	A Three-	Conforance
47	Sagar P., Saini J.R.	A Inree- Technique	EEE	A Inree- Technique	Conference
		Pioneering Study		Pioneering	
		for Unveiling		Study for	
		Stopwords in		Unveiling	
		Koshur Language		Stopwords in	
				Koshur	
				Language	
49	Advancing Digital	Advancing Digital	Intelligent	Publisher:	Conference
	Transformation in	Transformation in	Computing and	IEEE	
	Indian Higher	Indian Higher	Control for		
	Education	Education	Engineering and		
	Institutions	Institutions	Business Systems (ICCEBS)		
51	Vaishali A.	Continuous	2024 Fourth	IEEE	Conference
	Kherdekar, Sachin A.	Speech : A	International		
	Naik	Feature Fusion	Conference on		
		Method for	Advances in		
		Recognition of	Electrical,		
		Continuous Speech	Computing, Communication and		
		Sheerii	Sustainable		
			Technologies		
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52	T. Abirami, Shrikant Mapari, P. Jayadharshini, Lalitha Krishnasamy, R. Ragavendra Vigneshwaran	Streamlined Deployment and Monitoring of Cloud-Native Applications on AWS with Kubernetes Prometheus Grafana	Conference Proceedings : 2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	IEEE Xplore	Conference
53	T. Abirami, Shrikant Mapari,P. Jayadharshini, M. Kavipriya, T. Kavin, V.S. Kanagasubramaniyan	A Machine Learning Techniques for Early Autism Spectrum Disorder Detection Through Comparative Analysis of Feature Engineering and Classification Models	Conference Proceedings: 2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	IEEE Xplore	Conference
54	S. Santhiya, Shrikant Mapari, N. Abinaya, P. Jayadharshini, S. Priyanka, Lalitha Krishnasamy	Early Detection of Cervical Cancer using Machine Learning Classifiers for Improved Diagnosis in Underserved Regions	Conference Proceedings:2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)	IEEE Xplore	Conference
55	Shrikant Mapari, Vivek Veeraiah, Manohar Manchala, S. Dhamodaran, Rohit Anand, SimranDeep Kaur	Challenges in Remote Big Data Transmission in Io'T Environment	Conference Proceedings: 2024 2nd International Conference on Disruptive Technologies (ICDT)	IEEE Xplore	Conference
56	Meenal Jabde, Chandrashekhar Patil , Amol D.Vibhute & Shankar Mali	Offline Handwritten Multilingual Numeral Recognition Using CNN	Intelligent Systems for Smart Cities	Springer, Singapore	Conference

57	Amol D. Vibhute, Vikram Nakum	Deep learning- based network anomaly detection and classification in an imbalanced cloud environment	Procedia Computer Science	Elsevier B.V. Elsevier B. V.	Conference
58	Amol D. Vibhute, Chandrashekhar H Patil, Arjun V Mane, Karbhari V Kale	Towards Detection of Network Anomalies using Machine Learning Algorithms on the NSL-KDD Benchmark Datasets	Procedia Computer Science	Elsevier B. V.	Conference
62	Jatinderkumar R. Saini; Shraddha Vaidya	Identification of Information Calumny using Sarcasm Features	2023 Global Conference on Information Technologies and Communications (GCITC)	IEEE Explore	Conference
65	Bhalekar P., Saini J.R.	Comprehensive Exploration of the Role of Graph Databases like Neo4j in Cyber Security	International Conference on Emerging Smart Computing & Informatics (ESCI- 2024), Pune, India	IEEE, USA	Conference
66	Saini J.R., Gaikwad H., Sagar P.	Automated Detection of Similes and Oxymorons in Koshur and Awadhi Poetry: A Hybrid Algorithm Approach	IEEE Gobal Conference on Information Technologies and Communications (GCITC-2023), Bangalore, India	IEEE, USA	Conference
74	Priti Kulkarni; Rajashree Jain	Integrating Computing in High School Curriculum: A Conceptual Approach	2023 IEEE Technology & Engineering Management Conference - Asia Pacific (TEMSCON- ASPAC)	IEEE Xplore	Conference

76	Saini J.R., Vaidya S.	A Novel Stance Labeling Algorithm for Misinformation Detection	2nd International Conference on Advancements in Smart Computing and Information Security (ASCIS- 2023), Rajkot, India	CCIS, Springer, UK	Conference
77	Saini J.R., Vaidya S.	Recognizing Hate Speech on Twitter with Feature Combo	5th International Conference on Communication and Intelligent Systems (ICCIS-2023), Jaipur, India	LNNS, Springer, UK	Conference
78	Gaikwad H., Saini J.R.	Data Corpus and Stop Word List for Low-Resource Indo-Aryan Language— Awadhi	8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS- 2023), Jaipur, India	LNNS, Springer, UK	Conference
79	Kulkarni P., Saini J.R.	A Novel Framework to Detect Business Email Compromise through Unconsented Email Autoforwards	2nd International Conference on Advancements in Smart Computing and Information Security (ASCIS- 2023), Rajkot, India	CCIS, Springer, UK	Conference
81	Kanubhai K Patel, Nilay M Vaidya, Krishna Kant, Amol Vibhute, Sandeep Gaikwad	Towards a Greener Industry 4.0: Sustainable Manufacturing Strategies for Environmental Impact Reduction Through Innovation and Technology	International Conference on Smart Computing and Communication	Springer Nature Singapore	Conference
82	Amol D Vibhute, Minhaj Khan, Chandrashekhar H Patil, Sandeep V Gaikwad, Arjun V Mane, Kanubhai K Patel	Network anomaly detection and performance evaluation of Convolutional Neural Networks	Procedia Computer Science	Elsevier	Conference

68	Shreya Virani, Sarika Sharma	on UNSW-NB15 dataset Post pandemic technology assisted teaching and learning: A perspective on self-directed	Advances in Technological Innovations in Higher Education	Taylor and Francis	Book Chapter
70	Vijaya Choudhary, Paramita Guha , Sunita Mishra , Anamika Singh , Vandana Sharma , Rajesh Kumar Dhanaraj	learning mart production monitoring using drones in cyber- physical agricultural systems	Agri 4.0 and the Future of Cyber- Physical Agricultural Systems	Elsevier	Book Chapter
71	M. Suguna, D. Prakash , C.U. Om Kumar , M. Revathi , Rajesh Kumar Dhanaraj	AI-based pest detection and recovery model for cyber-physical agricultural systems	Agri 4.0 and the Future of Cyber- Physical Agricultural Systems	elsevier	Book Chapter
83	Milind Talele, Rajashree Jain, Shrikant Mapari	Complex Face Emotion Recognition Using Computer Vision and Machine Learning	Harnessing Artificial Emotional Intelligence for Improved Human- Computer Interactions	IGI Global	Book Chapter
25	K. Sujigarasharma, S. Sharulatha, M. Lawanya Shri, E. Gangadevi, Rajesh Kumar Dhanaraj	Optimizing 3D Bioprinting Using Advanced Deep Learning Techniques A Comparative Study of CNN, RNN, and GAN	Computational Intelligence in Bioprinting	Wiley	Book
26	E. Gangadevi, M. Lawanya Shri, Rajesh Kumar Dhanaraj, Balamurugan	Computational Intelligence in Bioprinting	Computational Intelligence in Bioprinting	Wiley	Book

63	R. Malviya, S. Sundram,Rajesh Kumar Dhanaraj, S. Kadry	Digital Transformation in Healthcare 5.0	degruyter	degruyter.	Book
64	A. Suresh Kumar, Rajesh Kumar Dhanaraj, Yassine Maleh, Daniel Arockiam	Ubiquitous and Transparent Security	Ubiquitous and Transparent Security	CRC	Book
69	Seifedine Kadry Vandana Sharma Rajesh Kumar DhanarajRutvij H. Jhaveri Gandhiya Vendhan	Agri 4.0 and the Future of Cyber- Physical Agricultural Systems	Agri 4.0 and the Future of Cyber- Physical Agricultural Systems	elsevier	Book