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Department of Information Technology

List of Journals Published- 2024-25

S.N	Name of the	Title of the Research paper	Journal	DOI	Categor	Month &
0	Staff				У	Year
1	Dr.S.Manikandan	Optimizing connectivity: a novel AI approach to assess transmission levels in optical networks	The Journal of Supercomputing	https://doi.org/10.1 007/s11227-024- 06410-4	SCIE	July 2024
				Volume 80, pages 26568–26588		
2	Dr.S.Manikandan	Efficient energy consumption in hybrid cloud environment using adaptive backtracking virtual machine consolidation	Scientific Reports	https://doi.org/10.1 038/s41598-024- 72459-z	SCIE	September 2024
3	K.Nagalakshmi , K Raju, R Lavanya	Tracking perishable foods in the supply chain using chain of things Technology	Scientific Reports	https://doi.org/10.1 038/s41598-024- 72617-3	SCIE	September 2024
4	Dr.G.Arul Selvan	Routing attacks detection in MANET using trust management enabled hybrid machine learning	Wireless Networks- Springer	https://doi.org/10.1 007/s11276-024- 03846-7	SCIE	October 2024



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List of Journals Published- 2023-24

S.No	Name of the Staff	Title of the Research paper	Journal	DOI	Category	Month & Year
1	Dr.K Raju, Dr. R Lavanya	Blockchain Assisted Cloud Security and Privacy Preservation using Hybridized Encryption and Deep Learning Mechanism in IoT-Healthcare Application	Journal of Grid Computing	https://doi.org/10.1007/s 10723-023-09678-7	SCIE	June 2023
2	Dr.S. Manikandan	Review of Feedback Analysis of Business Process Outsourcing	Migration Letters & The London Publishers	https://doi.org/10.59670 /ml.v20iS13.6465	Scopus	December 2023
3	R G Gokila	Intrusion detection in big data environment using hybrid deep learning algorithm (VAE-CNN)	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/JIFS- 234311 vol. 45, no. 5, pp. 8637- 8649, 2023	SCIE	November 2023
4	Ms. Nagalakshmi,K	Digital Innovation and Transformation during the COVID-19 Pandemic and Beyond	Technische Sicherheit	DOI:22.8342.TSJ.2024.V24 .3.01301	Scopus	March 2024
5	Dr.S. Manikandan	Intelligent Optimization Framework for Future Communication Networks using Machine Learning	Data and Metadata	DOI: https://doi.org/10.56294 /dm2024277 Vol. 3 (2024)	Scopus	January 2024
6	Dr.S. Manikandan	Smart Commodities Public Distribution System using IoT	Salud, Ciencia y Tecnología - Serie de Conferencias	doi: 10.56294/sctconf2024624 vol 2	Scopus	January 2024
7	Dr.S. Manikandan	Location based Access Privileges and Controlling the Clustering in Sustainable 5G Challenges	Salud, Ciencia y Tecnología - Serie de Conferencias	doi: 10.56294/sctconf2023402 vol 2	Scopus	January 2024
8	Dr.S. Manikandan	Learning Of Energy Efficient And Network	Journal of Theoretical	http://jatit.org/volumes/Vol	Scopus	February



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		Traffic Delay In Wireless Networks Using	and Applied	102No3/23Vol102No3.pdf		2024
		Channel Aware Routing	Information			
			Technology	Vol. 101. No. 3 2024		
9	Dr.S. Manikandan	Unveiling the Multifaceted Implications of	international Journal of	https://ijisae.org/index.php	Scopus	February
		Artificial Intelligence Adoption on	Intelligent Systems	/IJISAE/article/view/5069/		2024
		Sustainable Development: Perspectives	And Applications In	3776		
		and Hurdles	Engineering			
				Vol. 12 No. 19s		
10	Dr.S. Manikandan	Factors driving business intelligence	Indonesian Journal of	DOI: http://doi.org/10.1159	Scopus	March 2024
		adoption: an extended technology-	Electrical Engineering	1/ijeecs.v34.i3.pp1893-1903		
		organization-environment framework	and Computer Science			
			(IJEECS)	Vol 34, No 3		



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List of Journals Published- 2022-23

S.No	Name of the Staff	Title of the Research paper	Journal	DOI	Category	Month & Year
1	K Nagalakshmi, R Lavanya	Reshaping healthcare supply chain using chain-of-things technology and key lessons experienced from COVID- 19 pandemic	Socio-Economic Planning Sciences	https://doi.org/10.1 016/j.seps.2023.101 510 Volume 85, February 2023, 101510	SCIE	January 2023
2	Manikanda Kumaran K	An IoT based environment conscious green score meter towards smart sustainable cities	Sustainable Computing: Informatics and Systems	Volume 37 https://doi.org/10.101 6/j.suscom.2022.1008 39	SCIE	January 2023
3	R G Gokila	A Novel Machine Learning-Based Model for Network Attack Detection in Cyber Security Using Big Data	Journal of Environmental Protection and Ecology	https://scibulcom.net/ en/article/Um8crAKfg Y4xpMJcbotO Vol. 24, Issue 4, pp. 1401–1412	Scopus	April 2023
4	K Nagalakshmi,	Laxity-Aware Mixed-Criticality task Scheduling For Energy-Efficient Heterogeneous Multicore Processors	Journal of Theoretical and Applied Information Technology	Vol.101. No 10 https://www.jatit.org/ volumes/Vol101No10/ 3Vol101No10.pdf	Scopus	May 2023



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CONFERENCE PROCEEDING / BOOK CHAPTER 2024-25

S.N	Authors Name	Paper Title	Conference	Volume Number, Issue No and Page No	Online Link
0 1	K. Raju, R. Lavanya, K. Nagalakshmi,	AquaNet: A Quality Monitoring System for Rural Potable Water Distribution Scheme Using Smart Things	International conference on Responsible water Management and Circular Economy	Springer Conference Volume1, Issue 1, PP 89-109 -2024	https://link.springer.co m/chapter/10.1007/97 8-3-031-60436-2_7 May 2024
2	Dr.S.Manikandan	Sustainable Data Analysis in Engineering: 6- Year Review Emphasizing Open-Source Tools, Eco-Friendly Practices, and Emerging Trends for Smart Computing	10th International Conference on Smart Computing and Communication (ICSCC)	IEEE Conference p ISBN: 979-8-3503- 6311-1	10.1109/ICSCC62041 .2024.10690466 October 2024
3	Ms.S.Soundharya	Machine Learning based Indian Stock Market Forecasting	1 st international Conference on Data, Computation and Communication	IEEE Conference	November 2024
4	Ms.S.Soundharya	A Hybrid Intrusion Detection System Using Explainable AI for Enhanced Accuracy and Transparency	3 rd international Conference on Electronics and Renewable systems	IEEE Conference	February 2025
5	K. Manikanda Kumaran; S. Manikandan	A Comparative Analysis of Machine Learning Algorithms for Healthcare Applications	4th International Conference on Advancement in Electronics & Communication Engineering (AECE)	IEEE Conference	10.1109/AECE62803. 2024.10911687 March 2025
6	K. Manikanda Kumaran; S. Manikandan	Design and Implementation of Battery Management and Wireless Charging in Electric Vehicles Using IoT	10th International Conference on Communication and Signal Processing (ICCSP)	IEEE Conference	10.1109/ICCSP60870. 2024.10543779 June 2024
7	Dr.K.Raju	Enhancing smart farming through chain-of things (COT) architecture: A Comprehensive study on IoT and Blockchain integration	8 th international conference on Micro Electronics and Telecommunication Engineering	Springer Conference	December 2024



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<u>2023-24</u>

S.No	Authors Name	Paper Title	CONFERENCE	Volume Number,	Online Link
5.110	Autors Munic	i uper i itte		Issue No and Page No	omme Link
1	S Ambika	Benchmarking of Various Multicore Processors with Different Operating Systems	Proceedings of the International Conference on Applications of Machine Intelligence and Data Analytics	Volume – 105, Pages - 439 Scopus Conference	10.2991/978-94-6463-136- 4_37 May 2023.
2	S Ambika	Hybrid Functional Link Neural Networks for Soybean Price Forecast	International Conference on Applications of Machine Intelligence and Data Analytics (ICAMIDA 2022)	Pages: 569-581 2023 Scopus Conference	10.2991/978-94-6463- 136-4_48 May 2023.
3	S Ambika	Optimization of page rank algorithm using parallelization method	AIP Conf. Proc 2nd International Conference On Recent Advances In Computational Techniques	2755, 020011 (2023) Scopus Conference	https://doi.org/10.1063/ 5.0153296 September 2023
4	Lavanya Raju, Preethi S; Raju Karthikeyan	Data privacy preserving for efficient query services using RASP for a health record transaction in a two-cloud secure database	Biopolymer, Smart Materials and Engineering Materials	Volume 3042, Issue 1, Pages - 020028-1 - 020028-13 - 2023 Scopus Conference	https://doi.org/10.1063/ 5.0193944 March 2024
5	Dr.S. Manikandan	A GPS-based Face Attendance Register System using Android Applications stored in the Cloud	11th International Conference on Computing for Sustainable Global Development (INDIACom)	IEEE Conference	10.23919/INDIACom61295 .2024.10498447 April 2024
6	Dr.S. Manikandan	Intelligent Gen: An Efficient On-Demand Access Protocol in MANETs using Network Simulator - 2	Computing for Sustainable Global Development (INDIACom)	IEEE Conference	10.23919/INDIACom61295 .2024.10498890 April 2024
7	K. Nagalakshmi	Mobile Robot Multi-Objective Trajectory Planning with Velocity obstacles	Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE)	IEEE conference	DOI: 10.1109/ic- ETITE58242.2024.1049365 7 April 2024



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<u>2022-23</u>

S.No	Authors Name	Paper Title	CONFERENCE / Book Chapter	Volume Number, Issue No and Page No	Online Link
1	S. Manikandan	Deepq: Residue analysis of localization images in large scale solid state physical	AIP Conf. Proc. 2393, 020078 (2022)	Volume 2393, Issue 1	https://doi.org/10.1063/5.00 74142
		environments		Scopus Conference	May 2022
2	Dr.S.Manikanda n	Course and Programme Outcomes Attainment Calculation of Under Graduate	Emerging Technologie s in Data Mining and Information Security.	pp 335–343	https://doi.org/10.1007/978- 981-19-4676-9_28
		Level Engineering Programme Using Deep Learning	Advances in Intelligent Systems and Computing, Springer	Springer Conference	September 2022
3	Dr.S.Manikanda n	Performance Comparison of Various Wireless Sensor	IEEE 2nd International Conference on Mobile		10.1109/ICMNWC56175.2022. 10032015
		Network Dataset using Deep Learning Classifications	Networks and Wireless Communications (ICMNWC)	IEEE Conference	February 2023
4	Dr.S.Manikanda n	Intelligent Outlier Detection for Smart Farming Application using Deep Neural Network	IEEE 2nd International Conference on Mobile Networks and Wireless	Pp 1 – 5 IEEE Conference	10.1109/ICMNWC56175.2022. 10031638
		-			February 2023



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Book Chapters (2022-2025)

S.No	Authors Name	Paper Title	Book Chapter	Volume Number, Issue No and Page No	Online Link
1	K. Nagalakshmi, R. Anand Babu, K. Raju, R. Lavanya	Exploring the Driving and Restraining Forces to Fostering Blockchain in Sustainable Supply Chain in the Context of	Book Chapter Taylor & Francis Group Blockchain Technology in	eBook ISBN9781003177432 Chapter 5	https://doi.org/10.1201/ 9781003177432
	R. Lavanya	COVID-19 Pandemic	Supply Chain Management for Society 5.0	Chapter 5	December 2022
2	S Ambika	Centralized key distribution protocol using identity-based encryption techniques in cloud	Book Chapter Taylor & Francis Group Secure Data Management for	Pages: 111-134 Chapter 6	https://doi.org/10.1201 /9781003264538
		computing environments	Online Learning Applications	eBook ISBN 9781003264538	April 2023



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BOOK PUBLICATION

S.NO	BOOK TITLE	AUTHORS	YEAR OF	ISBN	Publishers
			PUBLICATION		
1.	Deep Learning and Its Applications	Dr.S. Manikandan	2022	978-81-957614-4-9	Quing Publications
2.	Deep Learning	Dr.K.Raju, Dr.R.Lavanya	2023	978-93-5757-828-8	Scientific
					International
					Publishing house
3.	Industrial Revolution and Metaverse	Dr.S. Manikandan	2023	978-81-963865-2-8	Quing Publications
	industry 5.0				_
4.	Cloud Computing	Dr.R.Lavanya , Dr.K.Raju,	2024	978-93-6260-404-0	Charulatha
					Publications
5.	Social Network Security	Dr.K.Raju, Mrs S.Preethi,	2024	978-93-6674-032-4	Scientific
		Ms.V.Surya.			International
					Publishing house
6.	Block Chain and Digital Twin	Dr. S. Manikandan	2024	978-81-981247-2-2	Quing Publications
	Technologies for Building Smart				
	Development				
7.	Introduction to operating Systems	Dr.G.Arul Selvan	2024	978-93-6260-045-5	Charulatha
		Dr.N.Murali			Publications



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S.NO	Name and Address	Registration	Торіс	Agency
	of the applicant	number / Year of		
		Publication		
1.	Dr. S. Manikandan,	L-143599/2024	Attainment Calculation Of Under	Intellectual Property
	Associate Professor		Graduate Engineering Programme	of India
		21822/2023-	Outcomes and Programme Specific	
		CO/L	Outcomes	
2.	Dr. S. Manikandan,	L-120106/2022	Course Plan, Course Outcomes,	Intellectual Property
	Associate Professor		Programme Outcomes and Programme	of India
			Specific Outcomes Attainment	
		16906/2022-	Calculation of Cloud Infrastructure and	
		CO/L	Computing Course	
		-		



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Patents (2022-2025)

S.NO	Name and Address of	Registration	Торіс	Agency
	the applicant	number / Year of		
		Publication		
1.	Dr.S. Ambika	232341044906 A	Development of UAV based Spectro	Official Journal of
		2023	Radio meter for Spectral data	The Patent office
			collection on minerals and vegetation	
		Issue no: 35/2023		
2.	Dr.S. Manikandan	6285296	IoT based garbage bin with alert	Intellectual Property
			system	office- UK design
		Grant Date: 04-		
		06- 2023		
3.	Dr.S. Manikandan	6286027	IoT based Landslide and Flash Flood	Intellectual Property
			Warning Device	office- UK design
		Grant Date: 06-		
		06-2023		
4.	Dr.K.Manikandakumara	6426370	AI BASED VOICE GUIDED BLIND	Intellectual Property
	n		STICK	office- UK design
		Grant Date: 26-		
		02- 2025		



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Quality of Publications

S.No	Publications	2024-2025	2023-2024	2022-2023
1.	SCI/SCIE	4	2	2
2.	Scopus	-	8	7
3.	IEEE/IET/Springer Conference	7	7	4
4.	Books	4	2	1
5.	Books Chapters	-	-	2
6.	Copyrights	-	1	1
7.	Patents	1	3	-