

NAME : Dr.A.Nagarajan

DESIGNATION : Assistant Professor

Contact

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Academic Qualifications

		l	1	
Degree	Degree Institution		Branch	Class
Ph.D.	Madurai Kamaraj University	2014	Computer Science	Awarded
M.Phil	•		Computer Science	First
M.C.A.	PSNA College of Engineering and Technology, Dindigul, Tamilnadu.	2002	Computer Applications	First
B.Sc.	Jayaraj Chelladurai Arts and Science College, Periyakulam, Tamilnadu	1999	Computer Science	First

Teaching Experience

Total Teaching Experience

: 18 Years 2 Months

Position	Institution	Duration	
Assistant Professor	Alagappa University, Karaikudi	30.01.2016 to Till date (8 Years 3 Month)	
Assistant Professor	PSNA College of Engineering and Technology, Dindigul	01.09.2010 to 29.01.2016 (5 Years 5 Month)	
Lecturer	PSNA College of Engineering and Technology, Dindigul	02.03.2006 to 30.08.2010	
		(4 Years 6 Month)	

ResearchExperience

Total Research Experience :14 Years

Position	Institution / University	Duration
Faculty	Alagappa University	30.01.2016 to Till date
Faculty	PSNA College of Engineering and Technology, Dindigul	02.06.2010 to 29.01.2016 (6 years)

Academic and Additional Responsibilities						
S.No	S.No Position UniversityBodies Period					
			From	То		
1	Training Partner-	Naan Mudhalvan	27.01.2023	2024		

	Single Point			
	Coordinator			
2	Coordinator - SPOC	Hackathon	18.04.2022	Till
				date
3	Deputy Co-ordinator	AU-ILFS- Small Industries Service Unit	05.09.2019	Till
		(SISU)		date
4	Coordinator	Swachh Bharat	11.07.2018	Till
				date

Areas of Research

- Image Processing
- Cloud Computing
- Biometric Authentication
- IOT

Research Supervision/ Guidance

ProgramofStudy		Completed	Ongoing
	Ph.D	1	4
	M.Phil	17	-
Project	PG	190	9

Publications

International National	Others
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Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
41	16	5	22	6

Cumulative Impact Factor(asper JCR) : 1.5

h-index :4

i10 index :2

Total Citations :65

Publications

No. of PhD Thesis evaluated : 1

No. of PhD Public Viva Voce : 1

Examination conducted

Funded Research Projects

Completed Projects:

		Period			
S.No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1	AURF	2017 to	2018	Literature Survey and Comparative Analysis on Skin Detection and Face Detection Algorithms for Intelligent Image Processing"	0.35

Ongoing Project:

		Period		Period		
S.No Agency		From	То	ProjectTitle	Budget (Rs.In lakhs)	
1	RUSA 2.0	2022 to	2024	Unsupervised Learning for features Selection Proposed Solution for Botnet Detection in 5G Networks	1.4	
2	RUSA 2.0	2019 to	2024	Unsupervised Learning for features	2.5	

Select	ion Proposed Solution for Botnet	
	Detection in 5G Networks	

Other Fund Received as Research Mentor:

		Period			
S.No	Agency	From	То	ProjectTitle	Budget (Rs.In lakhs)
1	Entrepreneur in Residence (EIR) Scheme Under RUSA 20.0	Dec 20 Feb 20		Smart Weighing Machine In Image Processing For Remote Weight Measurement And Monitoring	0.5

DistinctiveAchievements / Awards

Received Fellow of Bose Science Society – Outstanding contribution and invaluable service
to the promotion of Scientific research in the field of Image processing at TNSRO, Affiliated
with vigyan Prasar, Department of Science and Technology, Government of India, New
Delhi on 14.02.2019.

Events organized inleading roles

Number of Seminars / Conferences / Workshops/ Events organized:

Position	Programme	Duration	Institution
Organizing Secretary	One day National Seminar on "Artificial Intelligence in Healthcare Diagnosis and Beyond"	20.10.2023	Department of Computer Applications, Alagappa University

Organizing	Two Days workshop	16.03.2023 to	Department of
Secretary	on "Current Career	17.03.2023	Computer
	Opportunities for		Applications,
	Data Science &		Alagappa University
	Microservices in IT		
	Sector"		
Organizing	One Day workshop	24.02.2023	Institution's
Secretary	on " Internal		Innovation Council
	Hackathon and		& Higher Education
	reward best ideas		Innovation Cell,
	manage through YUKTI- NIR"		Alagappa University
	TOKII-NIK		
Coordinator	One Day Programme	30.11.2022	Institution's
	on "Internal		Innovation Council
	Hackathon and reward		& Higher Education
	best ideas manage		Innovation Cell,
	through YUKTI- NIR"		Alagappa University
Organizing	One Day National	06.05.2022	Department of
Secretary	workshop on		Computer
	"Technology		Applications,
	Integration for Smart		Alagappa University
	Environment"		
Organizing	One Day National	11.04.2022	Department of
Secretary	Seminar on		Computer
	"Technology Trends		Applications,

	in Digital world"		Alagappa University	
Co-Convener , Reviewer and Advisory Committee Member.	One Day National Conference on "Recent Research Trends in Computer Science"	04.11.2019	Department of Computer Applications, Alagappa University	
Organizing Secretary	Two day short term training programme on "Mobile Apps"	04.04.2019 to 05.04.2019	Department of Computer Applications, Alagappa University	
Coordinator	Seventeen days Programme Centre on Swachh Bharat and Swasth Bharat activity – Compost pit build and waste into manure	15.09.2018 to 02.10.2018	Alagappa University communicate by University grants commission, New Delhi	
Organizing Committee Member.	International Conference on Information, Communication and Digital Security (ICICDS-2018)	21.03.2018 to 22.03.2018	Department of Computer Applications, Alagappa University	

Organizing	DST-Purse	08.03.2018 to	Department of
Committee	Sponsored Two Day	09.03.2018	Computer
Member	National Seminar on		Applications,
	" Recent Research		Alagappa University
	Trends and		
	Developments in		
	Computer Science "		
Organizing	Two day short term	31.01.2018 to	Department of
Secretary	training programme	01.02.2018	Computer
	on "Hands-on		Applications,
	training in Computer		Alagappa University
	Networks and R		
	programming		
Co-ordinator	National Seminar on	07.11.2016 to	Department of
	Recent	08.11.2016	Computer
	Developments In		Applications,
	Computer Networks		Alagappa University
Organizing	International	04.04.2016 to	Department of
Committee	conference on	05.04.2016	Computer
Member.	Innovations in		Applications,
	Computer Science &		Alagappa University
	Technology(
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EventsParticipated

OverseasExposure/Visits

Malaysia

Membership

ProfessionalBodies

- 1. Indian Society for Technical Education (ISTE) LM57199 from 2008
- 2. International Associations of Engineers (IAENG) 186417 from 2017

Advisory Board

Year / Period	Name of the BoS / Administrative Committee / AcademicCommittee	Role
2023-2025	Board of Studies for M.Sc -Computer Science (AI & Data Science)- Alagappa University	Subject Expert
2022-2025	Broad based board of studies BCA for affiliated College, Alagappa University	Subject Expert
01.03.2022 to Till date	Doctoral Committee Member –Anna University, Chennai	Subject Expert
30.01.2016 to till date	Doctoral Committee Member –Alagappa University	Subject Expert
30.01.2016 to till date	Board of Studies for M.Phil -(Computer Science, MCA)- Alagappa University	Subject Expert

Academic Bodies in Other Institutes / Universities

Year/Period	NameoftheBoS/AdministrativeCommittee / Academic Committee	Role
2023-2025	Board of Studies for M.Sc -(Computer Science)- Sri S.Ramasamy Naidu Memorial College,Sattur .	Subject Expert
2023-2025	Board of Studies for Department of Computer Appllication -Yadava College for Women, Madurai	Subject Expert

2022-2025	Board of Studies for Department of Computer Appllication -JJ College of Arts and Science , Pudukoattai	Subject Expert
2019 - 2021.	Board of Studies for M.Phil -(Computer Science)- Sri S.Ramasamy Naidu Memorial College,Sattur .	Subject Expert

Ph.D. Thesis Guided

1. No.of PhD Thesis evaluated : 1

2. No.of PhD Public Viva Voce Examination : 1

conducted

S.No	Name of the Scholar	Title of the Thesis	Year of Completion
1	N.Ambiga	Enhanced Biometric Authentication Using Artificial Intelligence Techniques	2023

List of Book Chapters:

SNo	Authors/Title of the Paper/Journal	Impact
		Factor
	Vasanth Wason, J., Nagarajan, A. (2023). Lung CT	
	Scans Image Compression Using Innovative Transformation Approach. In: Joshi, A., Mahmud,	
1	M., Ragel, R.G. (eds) Information and	
	Communication Technology for Competitive Strategies (ICTCS 2021). Lecture Notes in Networks	
	and Systems, vol 400. Springer, Singapore.	

	https://doi.org/10.1007/978-981-19-0095-2_19	
2	Manivannan, T., Nagarajan, A. (2022). Medical Ultrasound Image Compression Using Edge Detection. In: Raj, J.S., Palanisamy, R., Perikos, I., Shi, Y. (eds) Intelligent Sustainable Systems. Lecture Notes in Networks and Systems, vol 213. Springer, Singapore. https://doi.org/10.1007/978-981-16-2422-3-48	
3	N. Ambiga and A. Nagarajan,(July 2021) Possibilities of using nano particles in human urine for transient biometrics, Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2021.07.034	
4	Ambiga N., Nagarajan A. (2021) Determination of Elements in Human Urine for Transient Biometrics. In: Peter J., Fernandes S., Alavi A. (eds) Intelligence in Big Data Technologies—Beyond the Hype. Advances in Intelligent Systems and Computing, vol 1167. Springer, Singapore. https://doi.org/10.1007/978-981-15-5285-4 22	
5	Ambiga N., Nagarajan A. (2020) Analysis of Human Serum and Whole Blood for Transient Biometrics Using Minerals in the Human Body. In: Mallick P., Balas V., Bhoi A., Chae GS. (eds) Cognitive Informatics and Soft Computing.	

Advances	Advances in Intelligent Systems and Computing,			
vol	1040.	Springer,	Singapore.	
https://doi	.org/10.1007/	978-981-15-1451-7	7_17	

List of Research Articles / Recent Publications

S. No	Authors/Titleofthepaper/Journal	Impact Factor
1	Ambiga, N., & Nagarajan, A. (2022 September). "Enhanced Machine	
	Learning Techniques For Elements In Human Tissue-Hair For The	
	Determination of Biometrics" published in Journal of East China	
	University Of Science And Technology, 65(issue 3), 957-965.	
	http://hdlgdxxb.info/index.php/JE_CUST/article/view/340	
	(Scopus), ISSN:1006-3080.	
2	Ambiga, N., & Nagarajan, A. (2022 August). "Elemental analysis for	2.0
	human identification assisted by machine learning techniques"	2.0
	published in International Journal of Health Sciences, 6(S5), 11024–11041.	
	https://doi.org/10.53730/ijhs.v6nS5.11832 (Scopus), ISSN :2550-6978	
3	Ambiga N., Nagarajan A. "Detection Of Bio Elements Present In Human	0.72
	Biological Tissue-Tooth And Its Usage For Element Biometric	0.72
	Authentication" published in Malaysian Journal of Computer Science.	
	DataAnalytics,HealthcareSystemsandFinTech, March 2022 pp : 19-29	
	Special Issue 1/2022 .DOI: https://doi.org/10.22452/mjcs.sp2022no1.2 (SCI),	
	ISSN 0127-9084	
4	T. Manivannan, and A. Nagarajan "Segmentation Of Thyroid Images	0.73
	Using Backtracking Search Algorithm" published in Journal of Tianjin	
	University Science and Technology, June 2021, ISSN: : 0493-2137, pp : 1-	
	9(Volume54,Issue7).	

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	https://tianjindaxuexuebao.com/dashboard/uploads/1.%20AWQXC.pdf	
	(Scopus indexed)	
5	Dr.A.Nagarajan and J. Vasanth Wason "Graph Cuts And Oriented Active	0.27
-	Appearance Models Based Segmentation Using CT Scan Images For Early	
	Diagnosis Of Lung Cancer" published in Turkish Journal of	
	Physiotherapy and Rehabilitation, June 2021, ISSN 2651-4451 e-ISSN	
	2651-446X,pp : 317-321 (Volume32, Issue 3).	
	http://www.turkjphysiotherrehabil.org/pub/pdf/321/32-1-39.pdf	
	(Scopus indexed)	
	R. Sivagami and A. Nagarajan "Segregation of Sensitive Data in Cloud	
6	Storage" published in International Journal of Innovative Technology and	
	Exploring Engineering (IJITEE), Feb 2020, ISSN: 2278-3075, ,pp: 367-369	
	(Volume 9, Issue 4). (Scopus indexed)	
	T. Manivannan & Nagarajan Ayyappan "Classification of thyroid nodules	1.0
7	using ultrasound images" published in bioinformation, Feb 2020, ISSN	1.9
	0973-2063 (online) 0973-8894 (print),pp : 145-148 (Volume 16, Issue 2).	
	http://www.bioinformation.net/016/97320630016145.pdf	
	(Pubmed & WOS) doi: 10.6026/97320630016145	
8	M.Priya and Dr.A.Nagarajan "Automatic Detection and Classification of	
0	Lung Carcinoma using Image Processing Techniques in Lab VIEW"	
	published in International Journal of Recent Technology and Engineering	
	(IJRTE), Jan 2020, ISSN: 2277-3878, ,pp: 1216-1219 (Volume 8, Issue 5).	
	https://www.ijrte.org/wpcontent/uploads/papers/v8i5/E5820018520.pdf	
	(Scopus indexed)	
9	Dr.A.Nagarajan and J. Vasanth Wason "Machine Learning Approach to	9.24
9	Predict Lung Cancer using CT scan Images" published in International	7.44
	Journal of Advanced Trends in Computer Science and Engineering, Dec	

	2019, ISSN 2278-3091 (online) ,pp : 2974- 2976 (Volume8,Issue6).	
	https://www.warse.org/IJATCSE/static/pdf/file/ijatcse48862019.pdf	
	(Scopus indexed)	
10	Jeyaprakash Vasanth Wason & Ayyappan Nagarajan "Image processing	1.9
	techniques for analyzing CT scan images towards the early detection of	1.,
	lung cancer" published in bioinformation, Sep 2019, ISSN 0973-2063	
	(online) 0973-8894 (print),pp : 596-599 (Volume 15, Issue 8).	
	https://bioinformation.net/015/97320630015596.pdf	
	(Pubmed & WOS)	
11	A. Rajapriya and Dr.A. Nagarajan"Demonstrating Protein Analysis for	
	cancer Disease using Approximation Algorithms" published in	
	International Journal of Innovative Technology and Exploring	
	Engineering (IJITEE), June 2019, ISSN: 2278-3075,pp:985-987 (Volume 8,	
	Issue8).	
	https://www.ijitee.org/wpcontent/uploads/papers/v8i8/H6531068819.pdf	
	(Scopus indexed)	
12	A.Rajapriya and Dr.A. Nagarajan"Classification of Mammogram Images	5.8
	Using Wave Atom and SVM" published in Journal of Applied Science and	
	Computations, May 2019, ISSN: 1076-5131,pp :2246- 2249	
	(Volume6,Issue5).	
	https://www.ijitee.org/wpcontent/uploads/papers/v8i8/H6531068819.pdf	
	(UGC Approved -Journal No :41238 <u>)</u>	
13	N. Ambiga and Dr.A. Nagarajan" A Survey of the elements in the human	1.5
	body and consideration of human bio monitoring for biometric	
	authentication" published in Journal of International Pharmaceutical	
	Research, Jan 2019, ISSN: 1674-0440 ,E-ISSN: 0975-2366 ,pp 16-19 (Volume	
	46, Issue 1).(UGC Approved -Journal No :30323) (Scopus indexed)	

14	R.Siddthan and Dr.A.Nagarajan "A Novel Security Analysis for	
	Virtualized Infrastructure using Fuzzy Classification Approach in Cloud	
	Computing" published in International Journal of Engineering and	
	Technology (IJET), Aug-Sep 2018, ISSN (Print) : 2319-8613 ISSN (Online) :	
	0975-4024 pp 1148-1154 (Volume 10 , Issue 4).	
15	P. Latha Gowri and Dr.A.Nagarajan "An Efficient Adaptive Motion	
	Estimation with Encoding for Video Compression in WSN" published in	
	International Journal for Research in Engineering Application &	
	Management (IJREAM), July 2018, ISSN: 2454-9150,pp 479-484 (Volume 4	7.427
	, Issue 4). https://ijream.org/papers/IJREAMV04I0440006.pdf	
	(UGC Approved -Journal No 64077)	
17	R.Siddthan and A.Nagarajan "An Analysis of Road Accidental Data Using	CITE. 4
16	Clustering and Itemset Mining Algorithms" published in International	SJIF:4. 893&G
	Journal of Data Mining Techniques and Applications, June 2018, ISSN:	IF:0.78 7
	2278-2419,pp 130-138 (Volume 7 , Issue 1).	
17	M. Veena and Dr. A. Nagarajan "Effective Clustering Approach to	5.01
17	Discover Outliers in Voluminous Database using Clustering Approach"	3.01
	published in International Journal of Scientific Research in Computer	
	Science, Engineering and Information Technology, 2018, ISSN: 2456-	
	3307,pp410-415(Volume3,Issue5).	
	https://res.ijsrcseit.com/page.php?param=CSEIT1833404	
	UGC Journal No: 64718	
10	S.Santhoshkumar, A.Nagarajan and J. Sasikala "Study and Analysis of	Q 224
18	Influential Node Tracking in Social Networks" published in International	8.226
	Research Journal of Engineering and Technology, may 2018 ISSN: 2395-	
	0056,pp 5013- 5015 (Volume 4 , Issue 4).	
	https://www.irjet.net/archives/V5/i4/IRJET-V5I41104.pdf	
1		

19	T.Vinotha and Dr.A.Nagarajan "Automated Detection of Diabetic	0.39
	Retinopathy using Medical Image Processing Techniques" published in	0.00
	International Journal of Data Mining Techniques and Applications, June	
	2018 ISSN: 2278-2419,pp 154-160 (Volume 7, Issue 1).	
20	Bargana Benazir and Dr.A.Nagarajan "An Innovative System for	0.39
20	Classifying Cervical Cancer Using Features Based ANFIS Classifier"	0.39
	published in International Journal of Data Mining Techniques and	
	Applications, June 2018 ISSN: 2278-2419,pp 111-118 (Volume 7, Issue 1).	
21	Bargana Benazir and Dr.A.Nagarajan "An Expert System for Predicting	7.19
21	the Cervical Cancer using Data Mining" published in International	7.17
	Journal of Pure and Applied Mathematics, April 2018 ISSN: 1314-	
	3395,pp1971-1986(Volume118,Issue20)	
	https://www.acadpubl.eu/hub/2018-118-21/articles/21c/9.pdf	
	. (Scopus indexed)	
22	P. Latha Gowri and Dr.A.Nagarajan "A Novel Memory Bandwidth	7.19
	Efficient Video Compression Method in Wireless Video Sensor Network"	,,12
	published in International Journal of Pure and Applied Mathematics,	
	April 2018 ISSN: 1314-3395,pp 1963-1968 (Volume 118, Issue 20).	
	https://www.acadpubl.eu/hub/2018-118-21/articles/21c/8.pdf	
	(Scopus indexed)	
23	S.Mohamed Azath Baik and Dr.A.Nagarajan "A New Fractal Image	2.23
	Compression technique using Genetic Algorithm" published in Journal of	_,
	Environmental Science, Computer Science and Engineering & Technology,	
	April 2018 ISSN: 2278–179X, pp 138-144, (Volume 7, Issue 2). (UGC	
	Approved Journal)	
24	A.Sakthivel and Dr.A.Nagarajan "Cancer Detection Methodology Using	8.226
	Fuzzy	J.==U

	Based Classification Techniques" published in International Journal of	
	Engineering Sciences & Research Technology, March 2018 ISSN :2277-	
	9655 ,pp 727-733, (Volume 7 , Issue 3).	
	https://paper.researchbib.com/view/paper/156516	
25	H. RifayaBaswan and Dr.A.Nagarajan "Scheduling Algorithm Based	8.226
	Simulator for Resource Allocation Task in Cloud Computing" published	0,220
	in International Research Journal of Engineering and Technology, July	
	2017, (ISSN: 2395-0072),pp 3129- 3132 (Volume 4, Issue 7).	
26	V. Raja Manickam and Dr.A.Nagarajan "Document Clustering for	4.396
20	Effective Information Retrieval System using Genetic Algorithm"	7.570
	published in International Journal for Scientific Research & Development	
	,2017 ISSN (online): 2321-0613 ,pp 505-509, (Volume 5 , Issue 6).	
27	N. Gayathri and Dr.A.Nagarajan "Public Auditing for Shared Cloud Data	
21	with Group User Revocation" published in International Journal of	
	Engineering and Techniques, July 2017, (ISSN: 2395-1303),pp 73-80	
	(Volume 3, Issue 4).	
	http://www.ijetjournal.org/Volume3/Issue4/IJET-V3I4P11.pdf	
28	N. Gayathri and Dr.A.Nagarajan "An Optimized Image with Digital	
20	Multimedia Files Hiding Audio, Video by Using DES Algorithm"	
	published in International Journal for Modern Trends in Science and	
	Technology, July 2017, (ISSN: 2455-3778),pp 355-360 (Volume 3, Issue 7).	
	https://www.ijmtst.com/vol3issue7/369IJMTST030785.pdf	
29	P. Jothimani and Dr.A.Nagarajan "An Efficient Sequential Data Embedded	
49	Image Steganographic Approach" published in International Journal of	
	Scientific Research in Computer Science, Engineering and Information	
	Technology, July 2017, (ISSN: 2456-3307),pp 34-38 (Volume 2, Issue 4).	
	https://ijsrcseit.com/paper/CSEIT1725116.pdf	

30	H. RifayaBaswan and Dr.A.Nagarajan "A Survey on Dynamic and	2.4
	Priority based Server Allocation in Cloud Computing" published in	
	International Journal Computer Science, Feb 2017, (ISSN:2348-6600),pp	
	1589-1596 (Volume 5, Issue 1).	
31	N. Gayathri and Dr.A.Nagarajan "A Survey on Web Image Search Re-	2.4
	Ranking With Click Based Similarity" published in International Journal	2.4
	Computer Science, Feb 2017, (ISSN:2348-6600),pp 1572-1579 (Volume 5,	
	Issue 1).	
32	N. Gayathri and Dr.A.Nagarajan "A Survey on Joint Static and Dynamic	2.4
32	Traffic Scheduling in Data Center Networks " published in International	4.4
	Journal Computer Science, Feb 2017, (ISSN:2348-6600),pp 1611-1617	
	(Volume 5, Issue 1).	
33	Dr.V.Devendran and Dr.A.Nagarajan "A Preliminary Survey on	11.76
	Recognizing Clothing Styles of People for Intelligent Image Understanding	11.70
	" published in International Journal of Advanced Research Trends	
	Engineering and Technology, April 2016, (ISSN:2394-3785),pp 285-290	
	(Volume 3, special Issue 20).	

Resource Personsin Various Capacities

National Conferences : 2

InternationalConferences : 7

Invited Lectures : 8

Date : 15.04.2024

Place : Karaikudi

Name :Dr.A.Nagarajan

Designation: Assistant

Professor