

BIO-DATA



1. Name and full correspondence address: **Dr. R. Anandha Jothi**
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Sivaganga District, Tamilnadu.
2. Email(s) and contact number(s) : jothinagendran2004@gmail.com
Mob.: 7904121389
3. Office Address : Guest Lecturer
Department of Computer Science
Govt. Arts and Science College
Thondi Road, Thiruvadanai,
Tamil Nadu- 623407
4. Date of Birth : 13-07-1978
5. Community : **DNC**
6. Academic Qualification (Undergraduate Onwards)

Course	Year	University/Institution	Percentage/Class
SSLC	1993-1994	Government Girls Higher Secondary School, Periyakulam	65% First Class
DECE Diploma in Electronics and Communication Engg.	1994-1997	Rathinavel Subramaniam Polytechnic, Dindigul	67.58% First Class
BCA Bachelor of Computer Applications	2009-2011	Department of Computer Application, Alagappa University, Karaikudi	61.25% First Class
MCA Master of Computer Applications	2011-2014	Department of Computer Application, Alagappa University, Karaikudi	77.4% First Class with Distinction
M.Phil. Computer Science	2014-2015	Department of Computer Application, Alagappa University, Karaikudi	86% University First Rank with Distinction
Ph.D Computer Science	2016-2021	Department of Computer Application, Alagappa University, Karaikudi	Awarded Viva-voce on 22.12.2021

7. Ph.D thesis:

1. Title of Ph.D thesis: ***Biometric based user authentication scheme***
2. Supervisor : **Dr. V. Palanisamy**
Member of syndicate,
Senior Professor
Department of Computer Applications,
Alagappa University, Karaikudi
3. University : Alagappa University
4. Date of Award: 22-12-2021

8. Work experience:

Positions held	Name of the Institute	From	To	Pay Scale
Guest Lecturer	Department of Computer Science, Government Arts and Science College, Thiruvadana	14.11.2026	Till date	Rs. 30,000
Assistant Professor	Dr. Umayal Ramanathan College for Women, Karaikudi.	03.08.2022	13.11.2025	Rs.20,000
Project Fellow	Alagappa University, Karaikudi	Apr-2018	Apr-2021	RUSA- Rs.20,000 DST- PURSE-10,000
Professional Assistant	Madras Institute of Technology Campus, Anna University, Chennai	June-2008	Sep-2009	Rs. 10,000

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

Name of Award	Awarding Agency	Year
Project Fellow	DST-PURSE Department of Computer Applications	Apr-2018 to Apr-2019
Project Fellow	RUSA-Phase 2.0 Department of Computer Applications	April-2019 to Apr-2021

10. **Research Publications (Indexed in Scopus/WOS): 09**

S. No.	Author(s)	Title	Journal	Volume	Page	Year
1	Ganesan, Thenmozhi R. Anandha Jothi and Palanisamy Vellaiyan.	A comprehensive survey on recommender system techniques.	International Journal of Computational Systems Engineering	7(2-4)	146-58	2023
2	R. Anandha Jothi and V. Palanisamy	A Robust and Efficient Fingerprint Minutiae Extraction in Post-Processing Algorithm	International Journal of Biometrics	14	83-97	2022
3	J. Nithyapriya R. Ananadha Jothi V. Palanisamy	Securing data with selective encryption-based DAC scheme for MANET.	Computer Networks, Big Data and IoT (Springer)	118 (7)	--	2018

4	R. Anandha Jothi V. Palanisamy	Performance Enhancement of Minutiae Extraction Using Frequency and Spatial Domain Filters.	International Journal of Pure and Applied Mathematics	118 (7)	647-654.	2018
5	S. Kalaiselvi, R. Anandha Jothi V. Palanisamy	Biometric Security with Iris Recognition Techniques: A Review.	International Journal of Pure and Applied Mathematics	187 (8)	567-572.	2018
6	P. Abirami, R. Anandha Jothi V. Palanisamy	A Survey on Biometric E-Voting System Using Retina.	International Journal of Pure and Applied Mathematics	118 (8)	517-520.	2018
7	R. Suganya, R. Anandha Jothi V. Palanisamy	A Survey on Security Methodologies in E-Voting System.	International Journal of Pure and Applied Mathematics	118 (8)	511-515	2018
8	MR. Nithyakalyani R. Anandha Jothi V. Palanisamy	Fingerprint Template Encryption Scheme Based on Chaotic Map and DNA sequence	International Journal of Pure and Applied Mathematics	118 (7)	297-305.	2018
9	R. Anandha Jothi V. Palanisamy	Trust Based Association Estimation Technique on AODV Protocol Against Packet Droppers in MANET	International Journal of Applied Engineering Research,	10 (55)	2408-2413.	2015

11. Books/Reports/Chapters: 07

S. No	Author's Name	Title	Publisher	Year of Publication
1	R. Anandha Jothi, Jothilakshmi	Challenges and opportunities in Artificial Intelligence: A Modern perspective	Advancing sustainable technological development: Harnessing AI for a better future (Beyondline Publisher, Bangalore) ISBN:978-93-95659-39-0	2024
2	R. Anandha Jothi, G. Thenmozhi, and V. Palanisamy	Finger vein feature extraction using contrast enhancement dynamic histogram equalization for image enhancement	CRC- Computational Intelligence for Information Retrieval. (2021) (In press) Taylor & Francis Group. eBook ISBN: 9781003134138	2021
3	R. Anandha Jothi and V. Palanisamy	Evaluation of fingerprint minutiae on ridge structure using Gabor and closed hull filter.	New Trends in Computational Vision and Bio-inspired Computing. ICCVBIC 2018. Springer, Cham. 41862-5_65 Print ISBN: 978-3-030-41861-8	2018

4	R. Anandha Jothi V. Palanisamy	Performance Improvement in Fingerprint Feature Extraction Using Minutiae Local Triangle Feature Set	IEEE Xplore 19 December (2019). DOI:10.1109/IMICPW.2019.8933166 ISBN Information: Electronic ISBN:978-1-7281-1034-9 Print on Demand (PoD) ISBN:978-1-7281-1882-6	2019
5	G. Thenmozhi, R. Anandha Jothi , V. Palanisamy	An Efficient Finger Vein Image Enhancement and Pattern Extraction Using CLAHE and Repeated Line Tracking Algorithm	Advances in Intelligent Systems and Computing, vol 1039. Springer, Cham. Print ISBN978-3-030-30464-5 Online ISBN978-3-030-30465-2	2019
6	J. Nithyapriya R. Ananadha Jothi V. Palanisamy	Protecting Messages Using Selective Encryption Based ESI Scheme for MANET	TEQIP III Sponsored International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW) 2019 May 22 (pp. 50-54). IEEE. Electronic ISBN:978-1-7281-1034-9	2019
7	J. Nithyapriya R. Ananadha Jothi V. Palanisamy	Securing data with selective encryption-based DAC scheme for MANET.	Computer Networks, Big Data and IoT. (Springer) Dec- 2018. Online ISBN978-3-030-24643-3	2018

12. Research Publications (UGC CARE List): 28

S. No.	Name	Title	Name of the Journal / Volume / Issue /Year / Page
1	S. Ameena Begum, R. Anandha Jothi , V. Palanisamy	Finger-Knuckle-Print Image Enhancement and comparative Analysis of Histogram Equalization Techniques	International Journal of Engineering Science and Computing, 9(7) pp-23308- 23310. (2019)
2	G. Thenmozhi, R. Anandha Jothi , V. Palanisamy	Comparative Analysis of Finger Vein Pattern Feature Extraction Techniques: An Overview”	International Journal of Computer Sciences and Engineering, Vol.7, Issue.5, pp.915-920, 2019
3	P. Amirtharani, R. Anandha Jothi , V. Palanisamy	Palmprint Image denoising and enhancement using spatial domain filters	IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.906-909, June 2019
4	V. Balasubramanian R. Anandha Jothi , V. Palanisamy	MR Brain Image Enhancement and Removal of Impulse Noise Using Median Filters	International Journal of Emerging Technologies and Innovative Research. Volume 6 Issue 6 2019-06-10

5	T. Aruna, R. Anandha Jothi , V. Palanisamy	Defeating Jamming Attack in Wireless Ad-Hoc Networks using Puzzle Based Hashing Technique	International Journal on Future Revolution in Computer Science & Communication Engineering. Volume (5), Issue (7) July -2019
6	T. Aruna, R. Anandha Jothi , V. Palanisamy	Defeating Jamming Attack in Wireless Network Techniques.	International Journal of Computer Sciences and Engineering, 7(5), 1384-1388. (2019)
7	J. Nithya Priya R. Anandha Jothi V. Palanisamy	Security scheme for MANET based on echoing and path changing	International Journal of Innovative science and research technology. 3 (10) (2018) 601-603.
8	S. Kalaiselvi, R. Anandha Jothi V. Palanisamy	Biometric Security with Iris Recognition Techniques: A Review.	International Journal of Pure and Applied Mathematics, 187 (8) (2018) 567-572.
9	P. Abirami, R. Anandha Jothi V. Palanisamy	A Survey on Biometric E-Voting System Using Retina.	International Journal of Pure and Applied Mathematics, 118 (7) 2018 647-654.
10	R. Suganya, R. Anandha Jothi V. Palanisamy	A Survey on Security Methodologies in E-Voting System.	International Journal of Pure and Applied Mathematics, 118,(7) (2018) 647-654
11	MR. Nithyakalyani R. Anandha Jothi V. Palanisamy	Fingerprint Template Encryption Scheme Based on Chaotic Map and DNA sequence	International Journal of Pure and Applied Mathematics, 118 (7) (2018) 297-305.
12	Y. Preethi, R. Anandha Jothi V. Palanisamy	A Iris Scanner Based Secure Identification Using LDA Techniques Based Voting System	International Journal of Advanced Research in Education & Technology. 5, (3) (2018) 13-16.
13	S. Kalaiselvi, R. Anandha Jothi V. Palanisamy	An Enhanced Bio-Chaotic Algorithm for Classifying Iris Image Extraction and Encryption.	International Journal of Advanced Research in Education & Technology.5 (3) (2018) 7-12.
14	R. Suganya, R. Anandha Jothi V. Palanisamy	Retina based Authentication for E-Voting System using MDS Algorithm	International journal of advanced research, Ideas and innovations in technology. 4 (4) (2018) 149-152
15	P. Abirami, R. Anandha Jothi V. Palanisamy	Retina based E-Voting system using fuzzy logic and hamming	International journal of advanced research, Ideas and innovations in technology. 4 (4) (2018). 218-222
16	Y. Preethi, R. Anandha Jothi V. Palanisamy	A iris scanner established protected credentials expending LDA techniques created voting scheme	International Journal of Scientific Research in Science and Technology. 4 (9) (2018) 243-246.

17	M. Jeevamaheswari R. Anandha Jothi V. Palanisamy	AODV Routing protocol to defence against packet dropping gray hole attack in MANET	International Journal of Scientific Research in Science and Technology. 4 (2) (2018) 1464-1471.
18	P. Sathya R. Anandha Jothi V. Palanisamy	Image De-noising using linear and decision based median filters.	International Journal of Scientific Research in Science and Technology. 4 (2) (2018) 1452-1456.
19	S. Saranya R. Anandha Jothi V. Palanisamy	An Review on Ear Recognition Techniques Based On Local Texture Descriptors	International Journal of Computer Sciences and Engineering Vol.7(5), May (2019), E-ISSN: 2347-2693
20	S. Aanjanadevi R. Anandha Jothi V. Palanisamy	A study on biometric image encryption algorithm based on efficiencies and performance.	International journal of creative research thoughts, 6 (2) (2018) 576-580.
21	S. Nasrin V. Palanisamy R. Anandha Jothi	A study on secure online voting system in biometrics using detection and recognition.	International journal of computer science, 5 (1), No 19, (2017) 1580-1588.
22	S. AanjanaDevi V. Palanisamy R. Anandha Jothi	A Study on Secure Online voting using biometrics face detection and recognition algorithms	International journal of Modern Trends in Science and technology.3 (8) (2017) 68-76.
23	S. Nithya V. Palanisamy R. Anandha Jothi	Face recognition system genetic with PCA and LDA	International Journal of Modern Trends in Science and Technology. 3, (8) (2017) 6-10.
24	S. Nithya, R. Anandha Jothi V. Palanisamy	Face Recognition in E-Voting using fisher face algorithm.	International Journal of Modern Trends in Science and Technology. 3, (7) (2017) 283-286.
25	S. Nasrin V. Palanisamy R. Anandha Jothi	Secure Online voting system using voice activity detection algorithm in biometric.	International Journal of Engineering and Technology. 3, (4) (2017) 134-139.
26	S. Aanjana Devi V. Palanisamy R. Anandha Jothi	Confidential E-Voting system using face detection and recognition.	International Journal of Engineering and Technology. 3 (4) (2017) 81-85.
27	R. Ananadha Jothi V. Palanisamy	Analysis of Fingerprint Minutiae Extraction and Matching Algorithm	International Journal of Advanced Research Trends in Engineering and Technology. 3 (20) (2016) 398-402.
28	R. Ananadha Jothi V. Palanisamy	Various Attacks and Its Countermeasures in Mobile Ad Hoc Networks: A Survey	International Journal of Engineering Research & Technology,3 (3) (2014) 50-57

13. Attended/paper presented in International Conferences/Workshops / Training Programme

a. National Conference/Seminar/Workshop Attended/Paper presented

1. Attended National Seminar on (NSRDCN-2016) during Nov- 7th and 8th -2016.
2. Attended National Conference on ('NCETC-2017') March 13th and 14th -2017.
3. Attended Training Programme on achieving publication index scores on 10th February - 2017 at Alagappa University.
4. Attended Hands on training in computer training and R- programming on 31st and 1st February-2018.
5. Attended Training programme on data Analytics Consultants on 26th and 28th -2018.
6. Attended DST-PURSE sponsored two-day National seminar on "Recent research trends and developments in computer science" in March 8th and 9th -2018.
7. Served as a technical committee member in the DST-Purse sponsored two-day National seminar on March 8th and 9th -2018.
8. Attended and Paper presented one day National conference on "Recent Trends and Advances in the Field of Information Technology" (NCIT'18)", Organized by Department of Computer Science, Applications & Information Technology. Held on 28th September-2018. Title of the paper, "Securing Intrusion in Network Devices Using Genetic Methods".
9. Attended and Paper presented one day National conference on "Recent Trends and Advances in the Field of Information Technology" (NCIT'18)", Organized by Department of Computer Science, Applications & Information Technology. Held on 28th September-2018. Title of the paper, "Development of Efficient Biometrics Based Unified Mobility User Authentication System".
10. Attended two-day National workshop on "Art of writing research paper and R Programming" Conducted by the Department of Computer Science, Dr. Umayal Ramanathan College for Women, Karaikudi-3. Held on 9th and 10th January-2019.
11. Attended two-day short-term training programme on "Mobile Apps" Organized by the Department of Computer Applications, Alagappa University, Karaikudi. Held on 4th and 5th March-2019.
12. Attended three-day workshop on Research Methods and LATEX from 24-26 June 2019. Organized by the Technical and Academic Writing Centre Alagappa University, Karaikudi.
13. Attended National conference on advances in Computing Data Science (NCACDS- 2025), Organized by the Department of Computer Applications, Alagappa University, Karaikudi. Held on April 2nd and 3rd 2025.

b. International Conferences Attended/Paper presented

1. Attended two-day International Conference on Innovations in Information Embedded and Communication Systems ('ICIIECS-2017') in association with IEEE on 17th and 18th March-2017, Published in Conference Proceedings – 5(2017) 406-410.
2. Paper presented on international conference ('ICMMCMSE-2017') February 20th to 22nd-2017 and published in proceedings.
3. Attended International Conference on ('SSICACR-2017') February 15th and 16th -2017
4. Paper was presented on international conference (ICACSET-2018) January-19th and 20th-2018 and published in proceedings.
5. That paper was published in international journal of pure and applied mathematics – 118(2018) 647-654.
6. Paper was presented on international conference (ICICDS-2018) March 21st and 22nd -2018 and published in proceedings.
7. Paper presented two-day International Conference on "Computational Vision and Bio Inspired Computing (ICCVBIC-2018)", Organized by Inventive Research Organization (Springer) and RVS Technical Campus, Coimbatore. Held on 29-30th November-2018. Title of the paper "Evaluation of fingerprint minutiae on ridge structure using Gabor and closed hull filter".
8. Paper presented two-day International Conference on "Computer Networks Big Data and IoT (ICCBI-2018)", Organized by Springer and Vaigai College of Engineering, Madurai. Held on 19-20 December -2018.
9. Attended and paper presented International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019) held at Department of Electronics and Communication Engineering, National Institute of Technology (NIT) Tiruchirappalli, Tamilnadu, from 22nd to 24th May 2019.
10. Attended International Conference on Intelligent Computing, Information and Control Systems [ICICCS 2019] to be held on 27 - 28 June 2019 at Malla Reddy College of Engineering, Secunderabad, India.
11. Attended International conference on Computational Intelligence and Applications (ICCIA-2019) to be held on 8-9 August 2019. Organized by the department of Computational Logistics, Alagappa University, Karaikudi in association with Mangalore University, Mangalore.

12. International Webinar on “From Monolith to Microservices ” on 7th August 2020
Organized by Department of Computer Science, University of Madras, Guindy Campus, Chennai - 600 025.
13. International Webinar on “Cloud SaaS Evolution” on 14th August 2020 Organized by Department of Computer Science, University of Madras, Guindy Campus, Chennai - 600 025.
14. International Webinar on Recent Trends in Computer Science (RTCS)- 2020 organized by the PG and Research Department of Computer Science, J.J. College of Arts and Science, Pudukkottai, held on 6th June, 2020.
15. Two day week online faculty development programme on “Python” from 22nd June – 4th July-2020 Organized by the department of electronics & communication engineering. JSS Academy of technical education. Noida and National Institute of Technology NIT-Bombay.
16. Four day online webinar lecture series on “Recent trends in computer science” from 27-05-2020 to 01-06-2020 Organized by the department of Computer Applications, Karaikudi.
17. One day online webinar on “Lib-Intellectual property rights protection: Role of the Library” on May 9, 2020. Organized by MIT Academy of Engineering.
18. One week online short term training program on “Computer Networks”, organized by the Department of Computer Science engineering, Arasu Engineering College, Kumbakonam from 6th to 11th July, 2020.
19. Online International conference on “Recent trends in industry requirements” held on 20.05.2020 Organized by the Department of Computer Science, St. Teresa Arts and Science College for women, Mangalakuntur.
20. Webinar lecture series on “Computational Intelligence “Organized by the Department of information Technology and Computer Science. Wing, Directorate of distance education, Alagappa University, Karaikudi.
21. Webinar on “Tips to Prepare Thesis” Organized by the Department of Education, Alagappa University, Karaikudi on 29.05.2020.
22. A Webinar on Image Processing Techniques using MATLAB organized by the Department of Information Technology, J.J. College of Arts and Science, Pudukkottai, held on 28th May, 2020.
23. Online National Faculty Development Programme on “Machine Learning for Biomedical Data Processing” on 4th June 2020 organized by the department of Computer Science & Engineering, Mandsaur University.

24. Online Five day Faculty Development Programme on Machine Learning held from 01-06-2020 to 5-06-2020 Organized by the Department of Computer Science & Engineering and Department of Information Technology, J.B Institute of Engineering and Technology.
25. Webinar on “Conceptual View of Machine Learning & Deep learning” Organized by the Department of Computer Science, Directorate of Distance Education, Madurai Kamaraj University, Madurai on 13-07-2020 & 14-07-2020.
26. Attended International conference on recent innovations in Information Technology (ICRIIT'23) held in 17th February-2023, at Dr. Umayal Ramanathan college for women. number 978-81-955226-4-4. The paper was presented under the title of Under the title of “An effective feature extraction in post-processing using graham’s scan algorithm-based CH filters”.
27. Attended International conference on recent innovations in Information Technology (ICRIIT'23) held in 17th February-2023, at Dr. Umayal Ramanathan college for women. ISBN number 978-81-955226-4-4. Paper was presented under the title of Design of fast supermarket shopping system using quick Sort algorithm.
28. Attended International conference on recent innovations in Information Technology (ICRIIT'23) held in 17th February-2023, at Dr. Umayal Ramanathan college for women. ISBN number 978-81-955226-4-4. Under the title of Optimization of face recognition algorithm based on DWT Attributes with PSO.
29. Attended International conference on recent innovations information Technology (ICRIIT'23) held in 17th February-2023, at Dr. Umayal Ramanathan college for women. The paper was presented under the title of Detection of brain tumor from MR brain image: An overview”, International conference on recent innovations information Technology (ICRIIT'23) held in 17th February-2023, at Dr. Umayal Ramanathan college for women.
30. Attended International conference on Accelerating business value through Emerging technologies (ICABVET 23), “A Systematic Review on Classification Techniques for Biometric Authentication” organized by Dr. Umayal Ramanathan college for women (24th April-2023) ISBN: 9-788195-522651
31. Attended International conference on J.J. College of Arts and Science (Autonomous), Pudukkottai. Organized by Department of Computer Science and Information Technology jointly organizes a Two-Day International Conference on Contemporary Trends in Computer Science (ICTCS - 2K24) on 1st and 2nd, August 2024. ISBN: 978-81-19587-90-

Invited Lectures: 03

1. Delivered a lecture on **"ML for Biometric Privacy and Security"** in Faculty Development Programme organized by the **Department of Computer Science and Applications, Periyar Maniammai Institute of Science and Technology**, on 2nd November 2022. This session is part of the one-week online programme on **"Applications of Machine Learning in the Modern Cloud Era,"** running from 28th October to 3rd November 2022.
2. Delivered an invited lecture on **"Advancement in Biometrics Authentication System using Machine Learning"** at the **Department of Computer Applications, Alagappa Government Arts College**, Affiliated to Alagappa University, Karaikudi, on 27th March 2023.
3. Delivered invited lecture on **"Ethical Considerations for Data Science,"** during the two-days workshop on **"Enclave Privacy and Security in Networking"**, held on 12th and 13th September 2024. organized by the **Department of Commerce with Computer Applications at Dr. Umayal Ramanathan College for Women**, Karaikudi

14. Any other information:

I have enough exposure in implementing major research project as I served as a project fellow in DST-PURSE (2018-2019) and RUSA- Theam based research project (TBRP :2019-2020) at Department of Computer Application, Alagappa University, Karaikudi, Tamilnadu. Through the project implementation I got exposure in the thrust research areas such as Networking, Ad-Hoc Networking, Biometrics and Medical image processing and received Ph.D degree in Computer Science and also trained many MCA and M.Phil graduates. Further, I have published 40 research publications (<https://scholar.google.com/citations?user=DSM5imIAAAAJ&hl=en>) in peer reviewed international journals presented papers in 31 International conferences, 7 Book chapters. I have successfully guided the projects of three M.Phil. scholars, 10- B.Sc and 7 M.Sc. graduates.

Dr. R. Anandha Jothi