

Dr.S.Dheenathayalan B.E., M.E., Ph.D.**Residential Address**

5/85, K1 Manju Nagar,
Thonugal vilakku, Kovilpatti - 628503
Thoothukudi District, Tamil Nadu

Mail Address

talk2dheena@gmail.com

ddhayalan@nec.edu.in

Contact

+91 9952020170

+91 8667487078

Date of Birth	08.07.1984	Age	41	Sex & Marital Status	Male & Married
----------------------	------------	------------	----	---------------------------------	----------------

Education

2022	Doctor of Philosophy <i>Information and Communication Engineering, Anna University, Chennai.</i>
2008	Master of Engineering <i>Computer and Communication Anna University, Chennai (First Class)</i>
2005	Bachelor of Engineering <i>Computer Science and Engineering Anna University, Chennai (First Class)</i>

Experience : Teaching-16 years 11 months

National Engineering College, Kovilpatti, Tamilnadu	
04/2025- Till date	<i>Associate Professor</i>
04/2022 – 03/2025	<i>Assistant Professor(Senior Grade)</i>
07/2012 – 04/2022	<i>Assistant Professor</i>
<i>Roever Engineering College, Perambalur</i>	
03/2009 – 07/2012	<i>Assistant Professor</i>

Student Funded Projects Guided

1. Institution of Engineers (IE), Kolkatta sponsored funded project entitled on “Design and Implementation of Blockchain enabled Open Source Virtual Ballot Box” with a total cost of Rs.11,000/- (2024)
2. NewGen IEDC, National Engineering College sponsored product entitled “Smart Baby Cradle using IOT” with a total cost of Rs.2,50,000/- (2022)
3. Institution of Engineers (IE), Kolkatta sponsored funded project entitled on “Smart Staircase Cleaning and Mopping Robot” with a total cost of Rs.30,000/- (2022)
4. Institution of Engineers (IE), Kolkatta sponsored funded project entitled on “Intelligent LPG Gas Stove based on Internet of Things (IoT)” with a total cost of Rs.20,000/- (2020)
5. NewGen IEDC, National Engineering College sponsored product entitled “Automatic Floor Cleaning and Mopping Robot” with a total cost of Rs.2,50,000/- (2019)

Awards Received

1. Received Top Performing Mentor certificate from NPTEL.
2. Received Discipline Star Certification from NPTEL
3. Received gold model certification from NPTEL Online Course entitled “Introduction to Internet of Things”
4. Recognized as BRONZE partner faculty under Inspire- Infosys Campus Connect Faculty Partnership Model.

Consultancy Works

1. Completed Consultancy Work to TATA Power SED, Bangalore entitled “Services in the area of Intelligence” with the total cost of Rs.3,60,000/- from January 2018 to September 2018.

Patent Granted

1. Patent Granted entitled “Automatic Floor Cleaning and Mopping Device” on 28.02.2020. (Patent No.488737, Application No. 202041007307, Grant Date: 26.12.2023).

Patent Published

1. Published a Patent entitled “System and Method for Cardless Transactions using Automated Teller Machine” (Journal No. 19/2020). Application No. 201841010035. Status: Awaiting Request for Examination.

Paper Published

- S.Dheenathayalan, et.al (2026). Towards Sustainable Energy: Improved Solar Forecasting with Deep Learning Models, 2025 IEEE First International Conference on Innovations in Engineering and Next-Generation Technologies for Sustainability (ICINVENTS), Coimbatore, India, pp. 1-6, doi: 10.1109/ICINVENTS64613.2025.11402333.
- S.Dheenathayalan, et.al (2026). Heuristic optimization of multiplierless decimation filter for multi-standard wireless applications. Scientific Reports. <https://doi.org/10.1038/s41598-026-48104-2>.
- S.Dheenathayalan, et.al (2026). Federated Learning Framework for Distributed Calibration of Electrochemical Sensor Networks: A Novel Approach to Analytical Quality Assurance. Analytical Letters, 1–22. <https://doi.org/10.1080/00032719.2026.2616641>.
- S.Dheenathayalan, et.al (2025). Express Grader: An Online Course Management System for Colleges. 2025 International Conference on Sustainable Communication Networks and Application (ICSCN), Theni, India, 2025, pp. 1861-1866, doi: 10.1109/ICSCN67106.2025.11308373.
- S.Dheenathayalan,(2025). Reliable Communication in Delay Tolerant Network by Utilizing the Concept of Acknowledgement based Hop by Hop Retransmission. International Journal of Computer Network and Information Security, vol. 17, no. 6, pp. 16-28, DOI: <https://doi.org/10.5815/ijcnis.2025.06.02> IF:0.756
- S.Dheenathayalan, et.al (2025). Expanding Tourism Management India Beyond Paradise, Recent Trends in Advanced Computing. ICRTAC 2024. Communications in Computer and Information Science, vol 2608, pp.193-206, doi:10.1007/978-3-032-02537-1_18.
- S.Dheenathayalan, et.al (2025). Hospital Interconnection System - MEDLINK360, Recent Trends in Advanced Computing. ICRTAC 2024. Communications in Computer and Information Science, vol 2608, pp.187-192, 10.1007/978-3-032-02537-1_17.
- S.Dheenathayalan, et.al (2024). Gesture Bridge: Connecting World through Sign Language, *First International Conference on Data, Computation and Communication (ICDCC)*, Sehore, India, pp. 626-633, doi: 10.1109/ICDCC62744.2024.10961909.
- S.Dheenathayalan, et.al (2024). Bus Route Tracking System. In: Owoc, M.L., Varghese Sicily, F.E., Rajaram, K., Balasundaram, P. (eds) Computational Intelligence in Data Science. ICCIDS 2024. IFIP Advances in Information and Communication Technology, vol 718. Springer, https://doi.org/10.1007/978-3-031-69986-3_32.
- S.Dheenathayalan, et.al(2024). Personal Exercise Trainer Using Computer Vision Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), Vellore, India, 2024,

pp. 1-6, doi: 10.1109/ic-ETITE58242.2024.10493615.

- S.Dheenathayalan, et.al(2024). Optimized TDMA framework for channel interference mitigation in IWSN based on self-adaptive affinity propagation clustering. Opt Quant Electron 56, 1944 <https://doi.org/10.1007/s11082-024-07737-1> IF:3.4
- S.Dheenthayalan, et.al(2023). Yoga Pose Detection and Correction Using Computer Vision 6th International Conference on Recent Trends in Advance Computing (ICRTAC), Chennai, India, 2023, pp. 192-198, doi: 10.1109/ICRTAC59277.2023.10480722.
- Jegatheeswari, S., Selva Rathinam, P., Dheenathayalan, S., Rajesh Kumar, S. (2023). A Survey on Alzheimer's Disease Prediction Using Deep Learning Algorithms. In: Kumar, S., Hiranwal, S., Purohit, S., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies. ICCCT 2023. Algorithms for Intelligent Systems. Springer, Singapore.
- Jegatheeswari, S., Selva Rathinam, P., Dheenathayalan, S., Rajesh Kumar, S "ALZHEIMER'S DISEASE PREDICTION USING CONVEX FUZZY INDUCED RESNET152V2 ALGORITHM" in European Chemical Bulletin, June 2023, Volume -12, Special Issue-1(Part-B), Page: 3801-3812.
- S.Dheenathayalan, B.Paramasivan, "A comprehensive Approach to Avoid Node Selfishness and Data Redundancy" Journal of Intelligent & Fuzzy Systems, vol. 39, no. 1, pp. 407-419, 2020 IF:1.851
- S.Dheenathayalan, B.Paramasivan,"Energy Based Random Repeat Trust Computation in Delay Tolerant Network" Journal of Computer Systems Science & Engineering, DOI: 10.32604/csse.2023.033326, 2022 IF:4.397.
- M. ManthiraMoorthi, S. Dhinakaran, Y. Aravind, Mr.S.Dheenathayalan ,Ms.M. Jayalakshmi, "Android Pc Controller", International Journal of Recent Technology and Engineering (IJRTE). Vol:8, NO: 5(2020) pp: 843-845.
- B.Vishnupriya, M.Susmitha , S.Valarmathi, S.Dheenathayalan, R.Rajakumari, "Load Detection And Monitoring System", International Journal Of Scientific & Technology Research Volume 9, Issue 02, February 2020.
- S.Ramadevi, R.Sowmiya, S.Dheenathayalan, "A smart shopping with an automated billing using mobile application", Indian Journal of Natural Sciences, Vol.12, No.66, 2021

Book Chapter Published:

- S.Dheenthayalan, et.al ,Video Secure Storage System Using Blockchain and IPFS for Enhanced Security, Power Energy and Secure Smart Technologies, 1st edition, 2025, CRC press, DOI: 10.1201/9781003661917
- S.Dheenathayalan, et.al, Explainable artificial intelligence techniques in deep learning based liver tumor analysis, in Math Optimization for Artificial Intelligence: Heuristic and Metaheuristic Methods for Robotics and Machine Learning , De Gruyter, 2025, pp.281-302, DOI: 10.1515/9783111436180

Books Published:

- Co-Author of the book entitled "Theory of Computation" published by yesdee publishers, Chennai.(ISBN: 978-93-80381-54-1)

Membership in Professional Societies

1. Life Member in Indian Society for Technical Education (ISTE), New Delhi
2. Life Member in Institution of Engineers (IE), Kolkatta

Sponsored FDTP/STTP/Seminar/Workshop/Training Programme Organized

1. Two days instructional course on "Computational Complexity" technically sponsored by IARCS, during

27.09.2013 & 28.09.2013

2. Three days on “Entrepreneurship Awareness Camp (EAC)” Sponsored by DST-NIMAT-EDII Sanctioned an amount of Rs. 60,000/- during 29.12.2014 to 31.12.2014
3. Two days seminar on “Cloud Computing Solutions for Genomics Analysis” Sponsored by DBT, New Delhi-Sanctioned an amount of Rs. 40,000/- during 07.07.2015 & 08.07.2015.
4. Two days seminar on “Research Avenues in Speckled Computing and Specknets: A Futuristic Pervasive Revolution” Sponsored by INSA, New Delhi-Sanctioned an amount of Rs. 30,000/- during 23.07.2016 & 24.07.2016
5. Three days seminar on “Perspectives of Human Computer Interaction in Natural Language Processing” Sponsored by CIIL, Mysore-Sanctioned an amount of Rs.30,000/- during 05.10.2016 & 07.10.2016
6. Organized one-day workshop on “Scilab for Teachers” sponsored by IIT Bombay on 04.05.2019
7. Organized one day workshop on “Assistive Technology” for third year and final year students on 17.08.2019
8. Two days national level seminar on “Research Avenues in Deep Learning for Natural Language Processing” Sponsored by CIIL, Mysore-Sanctioned an amount of Rs.30,000/- during 14.02.2020 & 15.02.2020.
9. Organized two days instructional course on “Stochastic Approximation Algorithms” technically and financially sponsored by IARCS - Sanctioned Amount Rs.6,000/- during 27.04.2023 & 28.04.2023.
10. Organized two days instructional course on “Turing Machines and Undecidability” technically sponsored by IARCS, 27.02.2026 & 28.02.2026.

International Conferences

1. Identification of Stress from ECG Signal using PNN & HMM Techniques. International Conference on Science and Innovative Engineering, Jawahar Engineering College, Chennai *April 2016*.
2. Secure Key Generation for Cryptography, International Conference on Emerging Trends in Applications of Computing, Francis Xavier Engineering College, March 2017
3. Smart Bin Waste Management, International Conference on Applied Soft Computing Techniques. Kalasalingam Academy of Research and Education, March 2018
4. Game Theoretic modeling and analysis of jamming attack in delay tolerant network, International Conference on Innovations in Engineering, Science and Technology, Kalasalingam Institute of Technology, February 2019
5. Performance Analysis of Epidemic and Prophet Routing protocol in DTN, 2nd international conference on Information Embedded, and Communication Systems (ICIECS 2019), St. Joseph College of Engineering, Chennai, March 2019.
6. Smart Body Monitoring System, 10th International conference on science and innovative engineering, Jawahar Engineering College, Chennai, March 2020
7. Design of an Intelligent LPG Gas Stove using Internet of Things, International Virtual Conference on Advances in Communication, Machine Learning, Embedded with Internet of Things, Kongu Engineering College, Perundurai, April 2021
8. Accident Prevention System in Hairpin Bend Road, International e-Conference on Information, Communication and Networking, Easwari Engineering College, Chennai, April 2021
9. Intern Candidate Performance Evaluation System, IEEE international conference on emerging technology and applications for a smart and sustainable world, National Engineering College, December 2021
10. Smart-Strap: A wearable computing device for soldier adhoc communication and health monitoring, IEEE international conference on emerging technology and applications for a smart and sustainable world, National Engineering College, December 2021
11. Product Recommendation Using Deep Learning, International Conference on Advanced Materials and Technologies for Industry 4.0 -"ICAMT 4.0" organized by Department Of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode, held during March 23 & 24 - 2023.
12. Gesture Bridge: Connecting World through Sign Language, 1st International Conference on Data, Computation and Communication (ICDCC-2024) held on November 29-30, 2024, organized by the School of Computing Science Engineering and Artificial Intelligence (SCAI), VIT Bhopal University.
13. Video Secure Storage System Using Blockchain and IPFS for Enhanced Security, 1st International conference on Power Energy and Secure Smart Technologies (ICPEST-2024), organized by Chaitanya Bharathi Institute of

Technology, Hyderabad held during 13 - 14 December 2024.

14. Expanding tourism management- India beyond paradise, 7th International conference on Recent Trends in Advanced Computing (ICRTAC'24), organized by School of Computer Science and Engineering, VIT, Chennai held during 14-15 November 2024.
15. Hospital interconnection System-MEDLINK360, 7th International conference on Recent Trends in Advanced Computing (ICRTAC'24), organized by School of Computer Science and Engineering, VIT, Chennai held during 14-15 November 2024.
16. Express Grader: An online course management system for colleges, 3rd International conference on sustainable communication networks and application (ICSCN2025), organized by Bharath Niketan Engineering College, Theni held during 15-17 October 2025.

Sponsored STC/FDTP/Seminar/Workshop/Training Programme Attended

S.No	Title	Period	venue
1.	5 th National Conference on “Application of Emerging Technologies”	24 th & 25 th March 2008	Adhiyamaan College of
2.	Two days national level seminar on “ Theory of Computation”	August 19 th & 20 th 2011	sudharsan Engg college
3.	Two days workshop on “software Testing methodologies”	1 st & 2 nd October 2010	Anna university of Technology
4.	One day national workshop on “Data mininig- T4 hands on training-weka software”	12 th august 2011	K.Ramakrihnan college of
5.	Five days Mission10x workshop	14 th November to 18 th	Dr.Navalar Nedunchezhiyan College of
6.	Seven days workshop on “theory of Computation”	03 rd June to 10 th June	National Engineering
7.	Two days seminar on “recent Advances in Emerging Trends in Life Science Research in Biocloud-Bioinformatics using Cloud Computing	20 th & 21 st September	National Engineering
	Attended two days capacity building programme on “commodity Futures Market”	3 rd & 4 th March 2014	Agricultural Research Station,
8.	Seven days Short Term Training Programme on “High Speed Networks”	09 th June to 16 th June	National Engineering
9.	Two days 17 th ISTE TN & P Section Annual Convention for faculty members of engineering College-2014	07 th & 08 th November	National Engineering
10.	3 rd International Conference on Eco-friendly computing and communication systems	18 th December to 20 th	NITK, Surathkal
11.	Two days instructional workshop on “Formal Methods in Cryptography”	08 th & 09 th January 2015	National Engineering
12.	One day workshop organized by NPTEL,IITM	13 th March 2015	National Engineering
13.	Two days “Research Aspirants Meet” in IEEE International Conference on computing technologies and intelligent data engineering	07 th & 08 th January 2016	National Engineering
14.	Attended two days national level seminar on “Research Avenues in speckled computing and specknets: A Futuristic Pervasive Revolution”	23 rd & 24 th June 2016	National Engineering
15.	Attended three days national seminar on “Perspectives of Human Computer Interaction in Natural Language Processing”	5 th to 7 th October 2016	National Engineering
16.	Attended 8 week NPTEL online courses on “Theory of Computation” & “ Introduction to Research”	July 18, 2016 - September 9, 2016	National Engineering College
17.	Attended 8 week NPTEL online courses on “Design and Analysis of Algorithm”	23 January 2017 - 17	National Engineering

18	Attended one week training programme on “Instructional Design and Delivery System”	22 nd to 27 th May 2017	National Engineering
19	Attended Seven days national Seminar on “Theory of Computation(CS6503)”	01 June 2017 to 08 June	National Engineering
20	Attended One day workshop on “ Deep Learning”	29 th July 2017	Mepco Schlenk Engineering
21	Attended 8 week NPTEL online courses on “Introduction to Cryptology”	July 2017 – August 2017	National Engineering
22	Attended Two days national level seminar on “Research Trends and Innovations in Vehicular Networking and Intelligent Vehicular	12 th and 13 th October 2017	National Engineering
23	Attended five days short term GIAN course on “ Algorithmic Foundations of Wireless Sensor Networks with Applications”	10 th December to 14 th	NITK, Surathkal
24	Attended AICTE approved FDP101x on Foundation Program in ICT for Education conducted by IIIT , Bombay	From 8 th March to 12 th	National Engineering
25	Attended AICTE approved FDP201x on Pedagogy for Online and Blended Teaching-Learning Process conducted by IIIT , Bombay	From 3 rd May to 30 th May	National Engineering
26	Attended 12 weeks NPTEL online courses on “Computer networks and Internet protocol”	July 2018 – October 2018	National Engineering
27	Attended Two Days Instructional Course on “Algorithmic Game Theory” sponsored by IARCS (Indian Association of Research in	From 20 th July 2018 to	National Engineering
28	Attended One day workshop on “Effective Mentoring in NPTEL Online Courses”	18 th January 2019	IIT Madras
29	Attended 12 weeks NPTEL online courses on “Introduction to Internet of Things”	January 2019 – April	National Engineering
30	Attended five days AICTE-ATAL FDP on "Internet of Things"	From 16 th December to 20 th	National Power Training Institute (NPTI),
31	Attended one day webinar on “Research Outcomes: Technical Paper Writing, Research Proposal, Patent Filing” organized by Data Teach.ai 22.04.2020	22 nd April 2020	-
32	Attended Online FDP on “Machine Learning and Artificial Intelligence”	04 th – 06 th May 2020	Andhra Loyola Institute of
33	Attended 12 weeks NPTEL online courses on “Compiler Design”	January 2020 – April	National Engineering
34	Attended 4 weeks NPTEL online course on “ Demystifying Networking”	September 2020-	National Engineering
35	Attended five days AICTE-ATAL Online FDP on "Block Chain"	From 14 th September	National Institute of Technology Raipur
36	Attended five days AICTE-ATAL Online FDP on "Cyber Security"	From 22 nd February	Indian Institute of Information
37	Attended five days AICTE-ATAL Online FDP on "Block Chain and its Security Perspectives"	From 06 th December	Indian Institute of Information
38	Attended five days AICTE-ATAL Online FDP on “Cyber Security, Ethical Hacking and Cyber Crime”	From 12 th July 2021 to 16 th July	University of Kashmir
39	Attended 12 weeks NPTEL online course and FDP on “ Introduction to Industry 4.0 and Industrial Internet of Things”	January 2021 – April	National Engineering
40	Attended one day workshop on “scilab”	04.05.2019	National Engineering
41	Attended five days GIAN course on “ A framework for interoperable blockchain to streamline supply chain communications	28.11.2022 to 02.12.2022	NIT Puducherry

42	Attended 2-day workshop on Blockchain, Metaverse and Web 3.0 Technologies at the "IEEE India Blockchain Forum"	08.09.2023 to 09.09.2023	IISC, Bengaluru
43	Attended Virtual Faculty Buildathon on “ Cyber Security and SIEM”	24.07.2023 to 04.08.2023	IBM
44	Attended 4 weeks NPTEL online course and FDP on “Design Thinking- A Primer”	July 2023 to August 2023	IITM
45	Attended 12 weeks NPTEL online course and FDP on “Cloud Computing”	July 2024 to October 2024	IITM
46	Attended a One Week Faculty Development Program on Software Security: 24 Deadly Sins of Software Programming	15.12.24 to 19.12.24	IITD&M Kancheepuram
47	Attended one week capacity building program on Cybersecurity- basic course	27.01.25 to 31.01.25	IIT Madras
48	Attended two days faculty training program on fundamentals of industry 4.0 and smart manufacturing	21.11.25 & 22.11.25	IITM Research Park
49	Attended one week faculty development program on application of machine learning techniques for health care	08.12.25 to 13.12.25	NMAM Institute of Technology, Mangalore