

Staff Name	:	Dr.R.Avudaiammal
Faculty ID	:	TEC27
Designation	:	Professor
Qualification	:	B.E., M.E., Ph.D
Teaching Experience	:	30 years
Area of specialization	:	1.Multimedia Networks 2.Embedded Network Processor 3. Satellite Image Processing
Subjects Expertise	:	<ol style="list-style-type: none"> 1. Computer Networks 2. Multimedia Compression and Communication 3. Microprocessor and Microcontroller 4. Advanced Microprocessor 5. Multi core Architecture 6. Information Coding Theory 7. Signals and Systems 8. Digital Signal Processing 9. Advanced Digital Signal Processing 10. VLSI Design
Funds Received	:	<ul style="list-style-type: none"> • Principal Investigator and received Grant of Rs. 19,82,000/- from ISRO under RESPOND Basket-2021 Scheme for the Two years (Feb 2022 - Feb 2024) project titled “Extraction of Buildings from Satellite Imagery of Urban Area through Transfer learning of Deep Learning Networks”. • Co-ordinator and received Fund of Rs. 3,00,000/- from AICTE to conduct ATAL FDP on “Diverse Application of Research paradigms in AI” from 05.12.2022. to 16.12.2022 • Co-coordinator: Anna University Sponsored FDP on VLSI Design at St. Joseph’s College of Engineering, during 8.12. 2014 to 15.12.2014
Patent	:	<ol style="list-style-type: none"> 1. Title of Invention- UNIQFILE Optimizer-B42F13/00 Published on 18.10.2019 in the Patent Office Journal No. 42/2019 dated 18.10.19 pp 48786. Indian patent: 201941038203 <p>S.Duraimurugan, P. Surenthran David, R.Avudaiammal, K.Suresh, Mr.G.Manikandan</p>

	<p>2. Title of Invention- An Advanced Novel Mechanized Borewell Rescue System Published on 20.05.2022 in the Patent Office, Indian Patent:202241027137</p> <p>Gowtham G,Hrithick Krishna K,R,Thenmozhi P,Martin Leo Manickam J and Avudaiammal R</p>
<p>Books Published</p>	<ol style="list-style-type: none"> 1. ReebaKorah, R.Avudaiammal Microprocessor and its Interfacing Devices – Dhanpat rai &Co -2002 2. ReebaKorah, R.Avudaiammal - Advanced Microprocessor and its Interfacing Devices Dhanpat rai &Co -2003 3. R.Avudaiammal , Information Coding Techniques , Vijay Nichole Pvt Limited 2005
<p>Journals published</p>	<ol style="list-style-type: none"> 1. Avudaiammal Ramalingam, Vandita Srivastava, Sam V George, Swarnalatha Alagala & Martin Leo Manickam (2024) Building rooftop extraction from aerial imagery using low complexity UNet variant models, Journal of Spatial Science, DOI: 10.1080/14498596.2024.2302166, Q2 SCIE 2. Ramalingam, A., George, S.V., Srivastava, V., Alagala, S., Manickam, J.M.L.Semantic Segmentation-Based Building Extraction in Urban Area Using Memory-Efficient Residual Dilated Convolutional Network,Arabian Journal for Science and Engineering 2024. https://doi.org/10.1007/s13369-023-08593-z Q1 SCIE 3. Avudaiammal.R, Madhavan.J, Venkatesan.K, Rahayu.S.B, Intrinsic and extrinsic approaches to mitigate FWM, Optoelectronics and Advanced Materials - Rapid Communications, 17, 11-12, November-December 2023, pp.490-501 (2023). J OPTOELECTRON ADV M Journal ISSN: 1454-4164 Q4 4. Srivastava, V., Avudaiammal, R., V George, S. Investigations on extraction of buildings from RS imagery using deep learning models, International Journal of Remote Sensing, 2024, 45(1), pp. 68–100. https://doi.org/10.1080/01431161.2023.2292016 Q1-SCIE 5. R. Avudaiammal, S. Duraimurugan, V. Sivasankaran and P. Jayarajan, Multi-Objective Spider Monkey Optimization for Energy Efficient Clustering and Routing in Wireless Sensor Networks , Ad Hoc & Sensor Wireless Networks, 59(1-2), p. 99-119 6. Hezekiah, James Deva Koresh, Karnam Chandrakumar Ramya, Sathya Bama Krishna Radhakrishnan, Vishnu Murthy Kumarasamy, Malathi Devendran, Avudaiammal Ramalingam,

and Rajagopal Maheswar. 2023. "Review of Next-Generation Wireless Devices with Self-Energy Harvesting for Sustainability Improvement" *Energies* 16, no. 13: 5174. <https://doi.org/10.3390/en16135174>, July 2023 Q1

7. R. Avudaiammal, Vijayarajan Rajangam, Durai Raji.V and Senthil Kumar, Color models aware hybrid feature extraction method for forest fire detection using SVM classifier, *Automatic Control & Computer Sciences, Scientific Journal, Pleiades Publisher*, Accepted Jan 31 2023. ISSN 0146-4116, *Automatic Control and Computer Sciences*, 2023, Vol. 57, No. 6, pp. 627–637. © Allerton Press, Inc., 2023. 01464116, 1558108X, H-Index 20, <https://doi.org/10.3103/S0146411623060020> Q3 ESCI
8. Vijayarajan R, Shani S. Kumar, Sathiya Narayanan, Sangeetha N., Avudaiammal R. Medical Image Encryption Using Distance-Based Biokey Generation, *IGI Global Platform, Advances in Digital Crime, Forensics, and Cyber Terrorism (ADCFCT) Book Series*, ISSN:2327-0381 EISSN:2327-0373, pp195-218, Aug 2022.
9. R. Avudaiammal , Sam V George, Building Extraction from High Resolution Satellite Images using Pre-Trained Deep Learning Networks, *GIS Science Journal* , Vol.9(5), pp.1102-1108, May 2022 ISSN NO : 1869-9391, IMPACT FACTOR : 6.1 . DOI:20.18001.GSJ.2022.V9I4.22.39210
10. R. Avudaiammal , Sam V George, Hybrid ML Modeling for MBI Based Building Detection from Satellite Imagery, *GIS Science Journal* , Vol.9(5), pp.664-675, 2022 ISSN NO : 1869-9391, May 2022. IMPACT FACTOR : 6.1 . DOI:20.18001.GSJ.2022.V9I4.22.39174
11. Avudaiammal, R., Vathsan, S. and Sivashanmugam, S.O., 2022. QoS-Driven AODV Algorithm for WSN. In *Futuristic Communication and Network Technologies* (pp. 115-125). Springer, Singapore.
12. Avudaiammal, R., Jasmine Mystica, K., Raveendran, K.P. and George, R., 2022. IMD Signaling-Based Automated Safety Aid System for Fishermen. In *Futuristic Communication and Network Technologies* (pp. 315-323). Springer, Singapore.
13. Avudaiammal, R., Devipriya, S., Swarnalatha, A. and Vijayarajan, R., 2022. An Efficient Hybrid De-Noising Method for Remote Sensing Images. In *Futuristic Communication and Network Technologies* (pp. 449-459). Springer, Singapore.
14. SenthilMurugan,B, Swarnalatha A, Avudaiammal R, A Memory Sparse Proportionate Affine Projection Algorithm for Echo Cancellation: Analysis and Simulations, *Arabian Journal for Science and Engineering*, PP 1-15, Oct 2021. DOI :10.1007/s13369-021-06219-w
15. Glory Precious, Shirley Selvan, Avudaiammal R, Classification of Abnormalities in BUS Images Using ANN, FIS and ANFIS Classifiers: A Comparison, *International Conference on Computing, Communication, Electrical and Biomedical Systems*, 25.3.21, *Journal of Physics-Conference Series* pp. 1-to 15,

doi:10.1088/1742-6596/1916/1/012015

16. S. Duraimurugan, R. Avudaiammal, P. M. Durai Raj Vincent Enhanced QoS Through Optimized Architecture for Video Streaming Applications in Heterogeneous Networks, *Wireless Personal Communications*, Springer, <https://doi.org/10.1007/s11277-021-08109-8> , Jan 2021.impact factor -1.671
17. R.Avudaiammal, G.Anita, A.M.Balamurugan, Improving Power Efficiency of nodes using Enhanced Source Routing, *Sambodhi.d -UGC CareJournal*, ISSN:2249-6661 Vol-43, No.-03 (III),pp 60-64. Nov-Dec-2020. Impact Factor (IF): 5.80
18. R.Avudaiammal, P.Elaveni, ShirleySelvan, R.Vijayarajan, (2020) Extraction of Buildings in Urban Area for Surface Area Assessment from Satellite Imagery based on Morphological Building Index using SVM Classifier" *Journal of the Indian Society of Remote Sensing* ISSN 0255-660X Volume 48 Number 9 pp. 1325-1344 DOI 10.1007/s12524-020-01161-0 sep 11th 2020. Hindex-33 impact factor -.1.585 url: <https://www.springer.com/journal/12524>
19. R.Avudaiammal, P.Elaveni, Nancy.P.S, Pavithra.S, Indices based Landuse classification using SVM, *Journal of Critical Review* , Vol 7,issue 19, pp 165-171. ISSN 2394-5125. SCOPUS-H-INDEX 5
20. Vijayarajan.R, Gnanasivam and Avudaiammal, R A Novel Bio-Key Based AES Image Cryptosystem". *Computer Journal*, pp 1-12, April 2019 SCOPUS-H-INDEX 61, impact factor -1.494
21. Vijayarajan.R and Avudaiammal, R Multiple MRI Image Fusion using Normalized Principal Components of DWT Sub bands, *International Journal of Tomography & Simulation*.pp.92-100.Vol 13, No.2.2018 SCOPUS-H-INDEX 5
22. S.Dayana and .R.Avudaiammal, ‘Automatic Building Extraction From VHR Satellite Image and Denoising with Various Filters’, *International Journal of Pure and Applied Mathematics*, Volume 118, No. 11 (2018). pp 121 – 129 SCOPUS-H-INDEX 23
23. S.DaphinLilda, A.Swarnalatha&R.Avudaiammal “Survey on Memristor Applications”, *International Journal of Pure and Applied Mathematics*, Volume 118, No. 11 (2018).pp 103 – 109
24. Avudaiammal, R ,Swarnalatha.A and Seethalakshmi.P ,Network Processor Based High Speed Packet Classifier For Multimedia Applications, *Wireless Personal Communications*, Springer, Vol. No.98 pp. 1219-1236, Sep. 2018. ISSN NO: 0929-6212 H-INDEX-54, impact factor -1.671, <https://link.springer.com/article/10.1007/s11277-017-4916-6>
25. R.Avudaiammal, A. Swarnalatha, “Implementation of Scalable Packet Classification Algorithm using Embedded Network Processor” *International Journal of Applied Engineering Research*, Vol.10, No.66, pp. 66-68, 2015.scopus H-INDEX-38
26. B.Arunkumar, R.Avudaiammal, A. Swarnalatha QoS - Based Packet Scheduler for Hybrid Wireless Networks, *International*

	<p>Journal of Networks, April 2015, Vol.1, Issue.1, pp.26-29</p> <p>27. Avudaiammal, R. and Seethalakshmi, P., “Design and Implementation of a Hybrid Packet Scheduling Algorithm on Network Processor Based Router for Enhancing QoS of Multimedia Applications”, European Journal of Scientific Research, Vol.72, No.2, pp. 245-262, 2012.</p> <p>28. Avudaiammal, R. and Seethalakshmi, P. “Efficient Mapping of Heuristic Packet Classifier on Network Processor based Router to Enhance QoS for Multimedia Applications”, Journal of Computing, Vol. 2, No. 9, pp. 107-113, 2010.</p> <p>29. Avudaiammal, R. and Seethalakshmi, P., “Packet Scheduling Disciplines- A Survey”, International Journal of Engineering Research and Industrial Applications, Vol. 3, No. 1, pp. 375-399, 2010</p> <p>30. Avudaiammal, R. and Seethalakshmi, P., “Bandwidth-Adaptive Scheduling for QoS Enhancement of Real-Time Multimedia Applications in Network Processor based Router”, Journal of Computer Science, Vol. 5, No. 12, pp. 1068-1074, 2009.</p> <p>31. Avudaiammal, R., Sivasubramanian R., Pandian, R. and Seethalakshmi, P., “TTSS Packet Classification Algorithm to Enhance Multimedia Applications in Network Processor based Router”, International Journal of Computer Science Information Security, Vol. 2, No. 1, pp. 140-145, 2009.</p>
<p>Conference / workshop attended</p>	<ol style="list-style-type: none"> 1. Yogeshwaran Shanmugam, Rahul Ravikumar, Avudaiammal Ramalingam Vandita Srivastava, Sam Varghese George, BMSU-Net: Building Extraction From Aerial Imagery, 5th IEEE International Conference On Innovative Trends In Information Technology, ICITIIT’24, IIT Kottayam, March 15th -16th 2024. Received Best Paper Award 2. R. Avudaiammal, Kamala sankari Subramania kuppusamy, Neha Shirlin Christopher YOLO: Roof Material Detection Using Aerial Imagery, International Conf on Computing and Data Science (ICCDs’24) Apr 25th -26th 2024. Received Best Paper Award 3. Vandita Srivastava, Avudaiammal. R, Sam V George, Building Extraction from Aerial Images using Light Weight Joint-Net, National Symposium on Geodiscover: Unravelling India’s Spatial Frontier, organized by Indian Society of Geomatics and Indian Institute of Remote Sensing, Pune, Nov28-30. 4. R. Avudaiammal, A. Swarnalatha, P.S. Nancy S, Pavithra, Investigations on Performance of CNN Architectures for Land Use Classification, International Conference on Futuristic Communication and Network Technologies, Springer (LNEE),

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5. R. Avudaiammal, M. S. SowmyaaVathsan and S. O. Sivashanmugam, QoS-Driven AODV Algorithm for WSN, International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020), Springer (LNEE), , organized by VIT, Chennai, Nov 6 and 7 2020.

6. R. Avudaiammal, S.Devipriya, Dr.A.Swarnalatha, R.Vijayarajan, An Efficient Hybrid denoising method for remote sensing images, International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020), Springer(LNEE), organized by VIT, Chennai, Nov 6 and 7 2020.

7. R. Avudaiammal, K. Jasmine Mystica, Ravindran K P, Renjith George, IMD Signaling Based Automated Safety Aid System for Fishermen, International Conference on Futuristic Communication and Network Technologies (VICFCNT 2020), Springer(LNEE) , organized by VIT, Chennai, Nov 6 and 7 2020.

8. R.Avudaiammal, G.Anita, A.M.Balamurugan, Improving Power Efficiency of nodes using Enhanced Source Routing, First Online International Conference on Continuity, Consistency and Innovation in Applied Sciences and Humanities - ICCIASH - 2020.organized by St.Martin's Engineering College, Secunderabad, 13.8.20 and 14.8.20,Sambodhi. UGC CareJournal, ISSN:2249-6661 Vol-43, No.-03 (III),pp 60-64

9. Dr. R.Avudaiammal, Jasmine Mystica, Ashton Balaji, Bagavathi Raja, Brain sense controlled wireless robot - , IEEE XPLORE Third Online International Conference on Smart Systems and Inventive Technology ICSSIT - 2020.organized by Francis Xavier Engineering College, Tirunelveli, 20.8.20 and 22.8.20doi.org/10.1109/ICSSIT48917.2020.9214100

10. Dr. R. Avudaiammal, K Jasmine Mystica, Krishna Chitanya and ArunGokul, 'Bidirectional Vehicle Platooning Based Intelligent Transportation System' in Proc. Of 2020 International Conference on Innovative Trends in Information Technology (ICITIIT) on 13th- 14th Feb.2020 at IIIT Kottayam. IEEE ploreDOI:10.1109/ICITIIT49094.2020.9071545

11. Dr.R.Avudaiammal, J.Sathiyapriya and A.V.Shruthy," An Effective Multilevel Approach To Detect Changes In Buildings

From Remote Sensing Images in Proc. Of 2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN) on 30th and 31st Mar 2019 at VIT Vellore. IEEE Explore DOI: [10.1109/ViTECoN.2019.8899454](https://doi.org/10.1109/ViTECoN.2019.8899454)

12. Dr.R.Avudaiammal, P.Pradeepa, A.ShenbagaPriya, 'Image Denoising Technique Using Hybrid Filter' in Proceedings of the International on Science and Innovative Engineering 2019, 24th March 2019, Chennai.

13. S.DaphinLilda, A.Swarnalatha, and R..Avudaiammal, 'Survey On Memristor Applications' in Proc. of 4th International Conference on Electrical, Electronics, Instrumentation and Computer Communication on 19th Jan 2018 at Karpagam College of Engineering, Coimbatore.

14. S.Dayana and .R.Avudaiammal, 'Automatic Building Extraction From VHR Satellite Image and Denoising with Various Filters', in Proc. of 4th International Conference on Electrical, Electronics, Instrumentation and Computer Communication on 19th Jan 2018 at Karpagam College of Engineering, Coimbatore.

15. S.Dayana and .R.Avudaiammal, R.Prabhu and A.Swarnalatha "Automatic Building Extraction From VHR Satellite Image" IEEE International Conference on Current trends towards Converging Technologies on 1st -3rd Mar 2018 at SVS College Of Engineering, Coimbatore.

16. R.Prabhu, S.Umasree, Dr.R.Avudaiammal and Dr.R.A.Alaguraja, 'Urban Slum Extraction using GLCM based Statistical Approaches from Very High Resolution Satellite Data' in Proc.of International Conference in the field of Computer Science and Communication, on 14th-16th, Dec 2017 at Madras Institute of Technology, Chennai.

17. Anugraha Rose V, Durga Devi S and Dr. R. Avudaiammal, "Design and performance analysis of 2:1 multiplexer using multiple logic families at 180 nm technology" in Proc. Of 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2017)" on 19th -20th May, 2017, at Sri Venkateshwara College Of Engineering(SVCE), Bengaluru, Karnataka, India

	<p>18. Anandhi. N and Dr. R. Avudaiammal, Segmentation and Recognition of Text using SVM Classifier in Proc. Of 2nd IEEE International Conference on Recent Trends in Engineering and Technology ICRTET'17 on 5th May 2017 at St. Joseph's Institute of Technology, Chennai</p>
	<p>19. N.Aanandhi, R. Avudaiammal, Segmentation And Recognition Of Text From Image Using Patern Matching, IEEE International Conference on Communications, and Signal Processing (ICCSP'17) at Adhiparasakthi Engineering College , Melmaruvathur April 06, 2017</p>
	<p>20. Avudaiammal, R and Vijayarajan.R, Principal Component Averaging based on DWT for Multiple MR Image Fusion, International Conference on Allied Electrical and Communication Systems (ICAECS'16), Dec 8-10, VFSTR University, Hyderabad pp.87-90.</p>
	<p>21. Anoop. P and Avudaiammal, R Epileptic Seizure Detection Using Wavelet Transform Based ANFIS Classifier, International Conference on Emerging Trends in Electronics Communication and Computing Technology, ICONTECH'16 , May 5-6, SCSVMV University, Kanchipuram</p>
	<p>22. Avudaiammal, R. and Seethalakshmi, P. Optimized Packet Classification Algorithm using Network Processor for Multimedia Applications, International conference on Advances in Recent Technologies in Communication and Computing, ARTCom,13 Sep 19-20, Bangalore</p>
	<p>23. N.Aarthi, R. Avudaiammal, A.Swarnalatha, “ Multituple packet classification using Dynamic discrete bit selection Algorithm”, Proceedings of the 4th International Conference on Contemporary Engineering & Technology, ICCET'15 18th March 2015, at Sri Ramanujar Engineering college, Chennai. ISBN-978-81-904760-6-5.</p>
	<p>24. B. Arun Kumar, R. Avudaiammal, A.Swarnalatha “ QoS – based packet scheduler for hybrid wireless networks”, 1st International Conference on Electrical Computing Engineering & Communication, ITCECC'15 April 2015 , organized by International Institute of Scientific Research and Technology (IISRT), Chennai, India on 15th April 2015</p>

<p>25. Nixon Benetto, A.Swarnalatha, R. Avudaiammal, “ Detection of collaborative attacks in MANETS using Enhanced CBDS technique”. The International Conference on Science Technology Engineering and Management ICONSTEM’15, Jeppiar engineering College, Jeppiaar Nagar, Chennai.</p>
<p>26. R.Avudaiammal and Dr.P.Seethalakshmi, Implementation of Packet Classification algorithm in Network Processor based router to support Multimedia Applications, IMSAA .December’08. Bangalore.</p>
<p>27. R.Avudaiammal and Dr.P.Seethalakshmi A Novel scheduling algorithm in Network Processor based router to enhance Multimedia Services, pp46-50 ICSCI .January’09.Hyderabad</p>
<p>National Conference</p>
<p>28. Panchabakesan, Sachit Kumar and Dr. R. Avudaiammal, Design Of Optimized Smart Home, in Proc. Of National Conference on "Emerging Trends In Technology & Applications - Ncetta - 17 on 24th April 2017 at University College of Engineering, Anna University, Tindivanam Campus, Tamilnadu</p>
<p>29. R.Avudaiammal and Dr.P.Seethalakshmi An NP based packet scheduler to support multimedia packets, Recent trends in Soft computing,pp202-209 NCR TSC May’08 Bangalore.</p>
<p>30. R.Avudaiammal and D.Sujatha Implementation and performance analysis of Packet Classifier using NP for multimedia applications, Recent trends in Electronics, pp134-142 TRIGGER March’08. Chennai.</p>
<p>31. R.Avudaiammal and V.Christina Ruth NP based efficient packet scheduling algorithm for multimedia service,pp-43-47 NCCT’08, April’08 Chennai.</p>
<p>32. R.Avudaiammal and T.Annasudha , Hybrid Packet Scheduling Algorithm for QoS Enhancement of Real Time Multimedia Application on NP based Router pp 68-73 NCR TIC March’09. Chennai.</p>
<p>33. R.Avudaiammal and P.S.Cyrilla Destemona, Efficient Construction of HBTSS Packet Classification Algorithm to enhance Multimedia Application using NP pp 35-40 NCR TIC March’09. Chennai.</p>

34. R.Avudaiammal, Shiju C Chacko and Dr.P.Seethalakshmi, NP Based Time Efficient Packet classification Algorithm To Enhance Multimedia Applications , pp 12, EMIT'10,Chennai.

35. R.Avudaiammal and J. RiniDevasudha, Design of Packet Classifier using Network Processor for Multimedia Applications, 2011

1.

Sl. No	Program & Venue	Duration
1.	Faculty Development Programme on “3G Mobile Networks” at Kongu Engineering College, Erode	17 th Oct. 2002 to 30 th Oct. 2002
2.	Faculty Development Programme on High performance networks, IRTT, Erode	10 th Nov 2003 to 23 rd Nov 2003
3.	Workshop on network processor, Anna University	30 th May to 31 st May 2006
4.	Embedded systems and industrial applications, CEERI at St.Joseph’s College of Engineering	24 th Sep 2004 to 25 th Sep 2004
5.	Workshop on “Recent trends in queuing theory” at PSG College of Technology, Coimbatore	30 th May to 31 st May 2006
6.	Workshop on Mobile Multimedia streaming ,Anna University, Trichy	21 st Dec to 22 nd Dec 2007
7.	Seminar on “Research methodologies” at Anna University, Trichy	17 th to 18 th May 2008

8.	Seminar on “Applied Statistics in Research” Anna University, Trichy	23 rd to 24 th Aug 2008
9.	Workshop on “Basics of Automation” MSME Technology Development Centre at St. Joseph’s Institute of Technology	9 th to 10 th Nov 2017
10.	Workshop on “Hands-On Training in Image Processing, Computer Vision and Machine Learning” at Madras Institute of Technology	3 rd to 5 th May 2018
11.	STTP on VLSI and Embedded Systems for IoT Applications at SRM Institute of science and Technology, Chennai	30 th Oct to 3 rd Nov 2018
12.	Participated in 2 days workshop on IoT and Drones Conducted by leading India AI, a nationwide initiative by Bennett University , Noida, India at St. Joseph’s College of Engineering	21 st Dec to 22 nd Dec 2018
13.	Participated in AICTE Sponsored STTP on Wireless Sensor Networks Applications towards Secured Automation with IoT at Nandha Engineering College	27 th May to 1 st June 2019
14.	Participated in Five days AICTE Training And Learning (ATAL) Academy FDP on Artificial Intelligence at Madras Institute of Technology Campus, Anna University.	11 th to 15 th Nov 2019
15.	Participated in Two week online course organized by Indian Institute of Remote Sensing (IIRS),ISRO Dehradun on Basic Principles of Remote Sensing Technology	13 th to 25 th April 2020
16.	Participated in Five days International Faculty Development Program organized by SRM Institute of Science and Technology on Emerging	5 th to 9 th June 2020

	Research Areas in Engineering	
17.	Participated in Three days international Faculty Development Program organized by Sandip Institute of Engineering and Management, Nashik on Future Advancements and Applications of Internet of Things	12 th to 14 th June2020
18.	Participated in Three days Online Faculty Development Program Organized by St. Joseph's College of Engineering on Medical Signal and Image Analysis	15 th to 17 th June2020
19.	Five days international FDP Organized by Karunya Institute of Science and Technology, Coimbatore on Exploring the Nuances of Deep Learning for Research Applications	13 th to 17 th July 2020
20.	FDP Organized by St. Joseph's College of Engineering on VLSI Physical design using Cadence Innovus Tool	20 th to 24 th July 2020
21.	Participated in the AICTE Sponsored six days online STTP on "Artificial Intelligence and Deep Learning Techniques" organized by B.S.A Crescent Institute of Science & Technology	1 st to 6 th Feb 2021
22.	Participated in the CSI six days online STTP on "Applied Data Science and Machine Learning" organized by St. Joseph's College of Engineering	31 st June to 5 th July 2021
23.	Participated in Five days AICTE Training And Learning (ATAL) Academy FDP on "GIS & Remote Sensing and its applications" organized by Punjab Remote Sensing Centre	7 th to 11 th June 2021
24.	5 days FDP Insights into AI and ML for Image Processing Applications, NIT Warangal	28 th Nov to 2 nd Dec 2022

		<table border="1"> <tr> <td data-bbox="437 188 536 432">26</td> <td data-bbox="536 188 1209 432">One week National level FDP on cloud Infrastructure (AWS), organized by Braino vision Solutions India Pvt. Ltd in collaboration with AICTE</td> <td data-bbox="1209 188 1401 432">21st to 25th Aug 2023</td> </tr> <tr> <td data-bbox="437 432 536 613">27</td> <td data-bbox="536 432 1209 613">Five days FDP on AI Tools for Streamlining Academic Research and Paper Writing, organized by Scientific Research Reports, Chennai, India</td> <td data-bbox="1209 432 1401 613">05th to 09th Dec 2023</td> </tr> <tr> <td data-bbox="437 613 536 837">28</td> <td data-bbox="536 613 1209 837">One week FDP on Revolutionizing Industries: AI's Impact in Today's World, organized by KPR Institute of Engineering and Technology, Coimbatore</td> <td data-bbox="1209 613 1401 837">20th to 26th March 2024</td> </tr> </table>	26	One week National level FDP on cloud Infrastructure (AWS), organized by Braino vision Solutions India Pvt. Ltd in collaboration with AICTE	21 st to 25 th Aug 2023	27	Five days FDP on AI Tools for Streamlining Academic Research and Paper Writing, organized by Scientific Research Reports, Chennai, India	05 th to 09 th Dec 2023	28	One week FDP on Revolutionizing Industries: AI's Impact in Today's World, organized by KPR Institute of Engineering and Technology, Coimbatore	20 th to 26 th March 2024	
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27	Five days FDP on AI Tools for Streamlining Academic Research and Paper Writing, organized by Scientific Research Reports, Chennai, India	05 th to 09 th Dec 2023										
28	One week FDP on Revolutionizing Industries: AI's Impact in Today's World, organized by KPR Institute of Engineering and Technology, Coimbatore	20 th to 26 th March 2024										
NPTEL certifications		<ul style="list-style-type: none"> • Received Elite silver and Elite Gold medals for the NPTEL Courses from various domains <ul style="list-style-type: none"> • Introduction to Coding Theory • Remote Sensing and Digital Image Processing of Satellite Data • Digital Image Processing • Computer Networks and Internet Protocol • Foundation of Cloud IoT Edge ML : (Topper of the course) • Introduction To Machine Learning 										
Awards & Achievements	:	<p>Got Appreciation certificate from IIT Bombay for outstanding contribution of spreading awareness of IT literacy among the students through Spoken Tutorial Project for three consecutive years.</p> <ul style="list-style-type: none"> • Journal Reviewer <ul style="list-style-type: none"> ○ Computer Journal ○ Journal of Indian Society of Remote Sensing ○ Journal of AdHoc Sensor and Wireless Networks ○ Journal of Supercomputing ○ Journal of Wireless Personal Communication ○ Journal of concurrency and Computation: Practice and Experience ○ Journal of AdHoc and Wireless Sensor Networks ○ Reviewer in few IEEE and springer international conferences 										

**Videos
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- Dynamic Huffman coding :

<https://youtu.be/9AboZS-9xjA>

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- Video Compression

<https://youtu.be/SIjBnuAurA0>

- Video Compression Standards H.261, H.263

<https://youtu.be/aZKgivwJHTI>

- H.323 standard

<https://youtu.be/vOfZCmVs2hE>

- Multimedia Communication Protocol- SIP, SDP

<https://youtu.be/PlgcdfrI6bU>

- Beyond Best Effort

<https://www.youtube.com/watch?v=vmE9C8K7aiQ>