Faculty Profile

Name	Dr. MAHENDRAKUMAR S
Designation	Professor
Department	Electronics and Communication Engineering
Qualifications	B.E., M.E., Ph.D.
Area of Specialization	Smart Antenna, Microwave, Wireless Network, MAC and Network Protocols.
Date of Joining	03.06.2009
Date of Birth	04.07.1983

Experience in (Years)	**Teaching**	15	**Industry**	1
Number of Papers Published	**International Journals**	20	**National Journals**	1
Number of Papers Presented	**National Conferences**	33	**International Conferences**	8

Copyright & Patent	5	
Grants Received:	3	
Contact Details	**Email:**	mahendrakumar.sp@gmail.com, mahendrakumar@velalarengg.ac.in
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PROFILE LINK

LIST OF PUBLICATIONS

1. **Mahendrakumar S**, Kiruthika S, Vijayakumar P, Karthikeyan G, Bharathi V & Vanitha K, "Design and Fabrication of Multiband Planar Antenna for 5G and Next-Generation Mobile Handset Applications," IEEE Xplore, 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), Theni, India, 2023, pp. 110-116, doi: 10.1109/ICSCNA58489.2023.10370711.
   Indexing: Scopus

2. **Mahendrakumar Subramaniam**, Vanitha Krishnan, ChunchuRambabu, GokulChandrasekaran, Neelam Sanjeev Kumar, "Design of NULLMAC Protocol for Mobile Ad Hoc Network Using Adaptive Antenna Array", Mobile Information Systems, vol. 2023, Article ID 2952410, 11 pages, 2023. https://doi.org/10.1155/2023/2952410
   Indexing: Scopus, Web of Science

3. **Mahendrakumar Subramaniam**, V. Vedanarayanan, A. Mubarakali and S. SathiyaPriya, "Reinforcement learning to improve qos and minimizing delay in iot," Intelligent Automation & Soft Computing, vol. 36, no.2, pp. 1603–1612, 2023.https://doi.org/10.32604/iasc.2023.032396
    Indexing: Scopus, Web of Science

4. **Mahendrakumar Subramaniam**, ChunchuRambabu, GokulChandrasekaran, Neelam Sanjeev Kumar, "A Traffic Density-Based Congestion Control Method for VANETs", Wireless Communications and Mobile Computing, Volume 2022, Article ID 7551535, https://doi.org/10.1155/2022/7551535
    Indexing: Scopus, Web of Science

5. **Mahendrakumar S**,Neelam Sanjeev Kumar, GokulChandrasekaran, K. Vanchinathan, K. Vanitha., "COVID-19 SOP Compliance And Monitoring ElectronicSystem For Business And Public Places Using Arduino Uno," IEEE Xplore, Intelligent and Innovative Technologies in Computing, Electrical and Electronics, 2023, pp. 478-482, Doi: 10.1109/IITCEE57236.2023.10090961.
    Indexing:Scopus

6. **Mahendrakumar S**, Neelam Sanjeev Kumar, GokulChandrasekaran, Vanitha K, NeerajPriyadarshi, "Fruit Disease and Freshness Identification By Image Processing Method Using Raspberry Pi," IEEE Xplore, Smart Generation Computing, Communication and Networking (SMART GENCON), 2022, pp. 1-5, Doi: 10.1109/SMARTGENCON56628.2022.10083880.
    Indexing:Scopus

7. **Mahendrakumar, S.**,Poorani R, "Temperature Monitoring and Automatic Door Opening System Using Arduino Uno", International Journal of Scientific Research in Engineering and Management, 2022, Volume: 06 Issue: 05, DOI: 10.55041/IJSREM12657.
    Indexing:UGC

8. **Mahendrakumar, S.**, Guna Sekar, T., Vanitha, K and Kokila, P "Design of Multiband Microstrip Patch Antenna Using Hfss for 3g/4g Wireless Communication", Bioscience Biotechnology Research Communications, Special Issue on Communication, 2021, Vol. 13, No 6, pp 1 – 5.
    Indexing:Web of Science

9. **Mahendrakumar, S** and GunaSekar, T "An Analyzing of Cross Layer Design for Implementing Adaptive Antenna Technique in Mobile Ad-Hoc Networks", Journal of Testing and Evaluation, 2019, Vol. 47. No. 6. https://doi.org/10.1520/JTE20180446. ISSN 0090-3973.
    Indexing:Scopus, Web of Science

10. **Mahendrakumar, S**and Sasikala, R "A survey on performance analysis of energy aware multicast routing protocols in mobile ad hoc network",International Journal of Networking and Virtual Organisations, Inderscience Publishers, 2014, Volume 14, Issue 4, Pages 340-354.
    Indexing:Scopus

11. **Mahendrakumar, S**and Senthilprakash, K"Improving congestion control performance and fairness in multihop ad hoc network", International Journal of Networking and Virtual Organisations, Inderscience Publishers, 2011, Volume 9, Issue 1, Pages 86-101.
    Impact factor:Scopus

12. **Mahendrakumar, S** and GunaSekar, T "Cross-Layer Design for Energy Efficient Multicast Video Transmission over Mobile Ad Hoc Networks", Asian Journal of Research in Social Sciences and Humanities, 2016, Volume 6, Issue 9, Pages 719-734.
    Indexing:UGC

13. Tamilselvan, KS., **Mahendrakumar, S** and K.SenthilPrakash, "Design Of Compact Multiband Microstrip Patch Antennas"; Journal of Global Research in Computer Science, 2012, Vol. 3, No. 11.
    Indexing:UGC
14. **Mahendrakumar, S** andPreethi, S"An improved direction of arrival (DOA) estimation algorithm and beam formation algorithm for smart antenna system in multipath environment", International Journal of Intellectual Advancements and Research in Engineering Computations, 2018, Volume 6, Issue 1, pp. 343 – 347.
    Indexing:UGC
15. Subasini, G and **Mahendrakumar, S** "A Framework for Implementing Adaptive Antenna Technique in Ad-Hoc Network for Multicast Environmen", International Journal for Scientific Research & Development, 2018, Vol. 6, No. 1, pp 2321-2323.
    Indexing: Google
16. Dineshkumar, B and**Mahendrakumar, S** "Cross-Layer Design For Energy Efficient Multi-Cast Mobile Ad Hoc(MANET) Networks", International Journal of Advanced Research Trends in Engineering and Technology, 2017, Vol. 4, no. 14, pp. 1- 6.
    Indexing:Google
17. Priyanka, R., Mahendrakumar, S "Rithmetic Model for Array Based Approximate Computing with Multiplier and Squarer Design", International Journal of Modern Trends in Engineering and Science, 2016, Vol. 3, Issue 4, PP 19 – 22.
    Indexing:Google
18. Nandhini, S., **Mahendrakumar, S**., and Boovitha, T"Execution of Asynch Execution of Asynchronous Substitution Box ronous Substitution Box ronous Substitution Box byLight Credence Mix- Credence Mix-Column Renovation", IJRIT International Journal of Research in Information Technology, 2014, Volume 2, Issue 4, April 2014, Pg: 830- 835.
    Indexing:Google
19. **Mahendrakumar, S**., SenthilPrakash, Kand Sasikala, R"Stable And Energy Efficient Routing For Mobile Ad-Hoc Networks Using Backbone Nodes", International Journal of Advanced Research in Computer Science, 2012, Vol. 3, Iss. 2, pp. 303 – 308.
    Indexing:Google
20. **Mahendrakumar, S**., andSenthil Prakash, K., "Wireless congestion control protocol for multihop ad hoc networks", International Journal of Computer Science and Information Security, 2010, vol. 7, no. 1, pp. 25- 31..
    Indexing:Google

JOURNAL REVIEWER/EDITORIAL BOARD MEMEBER

- International Journal of Mobile Communications
- Journal of Testing and Evaluation
- International Journal of Microwave and Wireless Technologies
- International journal of interdisciplinary telecommunications and networking.

MEMBERSHIP IN PROFESSIONAL BODIES

- Indian Society for Technical Education (ISTE)
- Indian Society of Systems for Science and Engineering (ISSE)
- Institute of Electronics, Information and Communication Engineers (IEICE)

FUNDED PROGRAMMES ORGANIZED

Sl. No	Year	Title	Name of the funding agency	Grant Received (Rs.)
1.	2023 - 24	Six Days FDP on Design Challenges and Realization of Wearable Antennas from An Antenna Engineer	ATAL	3,50,000
2.	2019 - 20	MODROB - Modernisation & Removal of Obsolescence for Microwave Laboratory	AICTE	14,20,000

P.hD GUIDANCE

- Recognized supervisor of Anna University, Chennai.
- Reference Number : 4290009
- Currently guiding eight Ph.D research scholars in the area of Communication and Computer Networks under Anna University, Chennai.