

FACULTY PROFILE

Name of Teaching Staff / RMK ID	 Dr.A.Vijayaraj / T1114	
Designation	Associate Professor Grade II	
Department	Information Technology	
Date of Joining the Institution	19.05.2023	
Qualifications	M.E., Ph.D	
Total Experience	Overall: 25 Years	In RMK: 2 Year
Papers Published in Journal	Overall: 121	After Joining RMK: 43 SCI-6, WoS-2, Scopus-25, patents-10

**List of Papers
Published**

INTERNATIONAL JOURNAL PUBLICATIONS

1. Xiaobin Wu, **A. Vijayaraj**, Nadia Sarhan, K. Chanthirasekaran, mad Mahrous Awwad, Guma Ali “An Effective Resource Allocation framework for D2D Communication in 5G Wireless Personal Area Network with Hybrid Optimizer”, International Journal of Wireless communication systems, ISSN:1099-1131, <https://doi.org/10.1002/dac.6092> **Anna University Annexure I (Wiley 2025, SCI, Q2-IF=1.9).**
2. **A. Vijayaraj**, Jebakumar R, Umadevi G, Gururama Senthilvel , “An efficient routing protocol to reduce traffic and congestion control in cloud edge networks of wireless sensor networks”, International Journal of Wireless communication systems, ISSN:1099-1131 , <https://doi.org/10.1002/dac.5779>. **Anna University Annexure I (Wiley 2024, SCI, IF=1.9).**
3. Xiaobin Wu, **A. Vijayaraj**, Nadia Sarhan, K. Chanthirasekaran, mad Mahrous Awwad, Guma Ali “An Effective Resource Allocation framework for D2D Communication in 5G Wireless Personal Area Network with Hybrid Optimizer”, International Journal of Wireless communication systems, ISSN:1099-1131, <https://doi.org/10.1002/dac.6092> **Anna University Annexure I (Wiley 2025, SCI, Q2-IF=1.9).**
4. Yunli Cheng, **A. Vijayaraj**, Kiran Sree Pokkuluri ,Ahmadreza Montazerolghaem, Taybeh Salehnia, Roqia Rateb “Vehicular Fog Resource Allocation Approach for VANETs Based on Deep Adaptive Reinforcement Learning Combined with Heuristic Information”, IEEE ACCESS, Digital Object Identifier 10.1109/ACCESS.2024.3455168, VOLUME 12, Pp 139056-139075, 2024. **(IEEE ACCESS 2024, SCI, Q1- IF=3.9).**
5. A. Jenice Prabhu, A. Ahilan, **A Vijayaraj** and P. Gururama Senthilvel, “Aquila Optimized Fuzzy Deep Belief Network for Secure Data Transmission in WSN”, IETE JOURNAL OF RESEARCH, ISSN NUMBER: 0377-2063, doi/full/10.1080/03772063.2024.2369722, **Anna University Annexure I (TAYLOR & FRANCIS 2024, SCI, Q2- IF=1.5).**

6. Anusha.N, Tapas Babu B R, Selvakumaran S, **Vijayaraj A**, Ramesh Kumar C, “Cyber intrusion detection using dual interactive Wasserstein generative adversarial network with war strategy optimization in wireless sensor networks” , Multimedia Tools and Applications, ISSN 1573-7721.
<https://link.springer.com/article/10.1007/s11042-024-19754-z>.
(Springer 2024 SCI, IF=3.0, Q1).
7. Mageshkumar N, **Vijayaraj A**, Subba Reddy Chava , Gururama Senthilvel, “ Prediction of User Attrition in Telecommunication Using Neural Network”, EAI Endorsed Transactions on Scalable Information System, doi: 10.4108/eetsis.5242(**WoS 2024**)
8. Hemanta Kumar Bhuyan A. **Vijayaraj** and Vinayakumar Ravi , “Diagnosis system for cancer disease using a single setting approach” , Multimedia Tools and Applications , <https://doi.org/10.1007/s11042-023-15478-8>, (**Springer 2023 , SCI, IF=2.76**).
9. M Dilli Babu, R. Sudharsanan, Surinderpal singh, **A. Vijayaraj**, Premamayudu Bulla, S. Devikala, “A Novel Communication Pathway Metric Evaluation using Throughput and Energy Improvements over Wireless Sensor Networks”, International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Volume: 11 Issue: 10. (**Scopus Elsevier 2023**).
10. **A. Vijayaraj**, V.P. Murugan, Subba Reddy Chavva , , N. Mageshkumar , Uma Maheswari G “Skin Cancer Detection in Deep Learning Using Restnet-50 Model”, International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 11 Issue: 9 (**Scopus Elsevier 2023**).
11. P. Pattunnarajam , Janani G. , **A. Vijayaraj** , Sathiya Priya S, “Enhanced routing strategy of wireless sensor network based on fifth generation communication technology”, The Scientific Temper(2023), Vol. 14 (4): 1283-1288, Doi: 10.58414/SCIENTIFICTEMPER.2023.14.4.33(**WoS 2023**).
12. **A.Vijayaraj**, P. T. Vasanth Raj ,R. Jebakumar, P. Gururama Senthilvel, N. Kumar, R. Suresh Kumar , R. Dhanagopal, “Deep

	Learning Image Classification for Fashion Design” , Wireless Communications and Mobile Computing, Volume 2022, Wiley Publication https://doi.org/10.1155/2022/7549397, Anna University Annexure I(Springer 2022, SCI, IF=2.34). 13. A. Vijayaraj, Hemanta Kumar Bhuyan, P. T. Vasanth Raj, M. Vijay Anand, “Congestion Avoidance Using Enhanced Blue Algorithm” , Wireless Personal Communications, 2022 , https://doi.org/10.1007/s11277-022-10028-1, Anna University Annexure I(Springer 2022, SCI, IF=1.67). 14. Hemanta Kumar Bhuyan A. Vijayaraj and Vinayakumar Ravi , “Development of secret images in image transferring system” , Multimedia Tools and Applications , https://doi.org/10.1007/s11042-022-13677-3 , (Springer 2022 , SCI, IF=2.76). 15. P. T. Vasanth Raj, A. Vijayaraj , K. Pradeep, Ebenezer Lartey Debrah, “Self-Super- Resolution of an MRI Image with Assistance of the DSTTD System” , Journal of Healthcare Engineering, Volume 2022, Pp 1-11,https://doi.org/10.1155/2022/3376079 Anna University Annexure I(Hindawi 2022, SCI, IF=2.7). 16. K.Anand, A. Vijayaraj M. Vijay Anand, “Privacy preserving framework using Gaussian mutation based firebug optimization in cloud computing”, The Journal of Supercomputing https://doi.org/10.1007/s11227-021-04173-w, Anna University Annexure I(Springer 2022, SCI, IF=2.75). 17. K. Anand, A. Vijayaraj, M. Vijay Anand, “An enhanced bacterial foraging optimization algorithm for secure data storage and privacy-preserving in cloud” , Peer-to-Peer Networking and Applications https://doi.org/10.1007/s12083-022-01322-7. Anna University Annexure I (Springer 2022, SCI, IF=2.36). 18. V. Praveena, A. Vijayaraj, P. Chinnasamy, Ihsan Ali,Roobaea Alroobaea, Saleh Yahya Alyahyan, Muhammad Ahsan Raza, , “Optimal Deep Reinforcement Learning for Intrusion Detection in UAVs” , Computers, Materials & Continua DOI:10.32604/cmc.2022.020066, Anna University Annexure I(Tech Science Press 2022, SCI, IF=2.37).
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19. **A. Vijayaraj**, K. Bhavana, S. SreeDurga , S. Lokesh Naik, “Twitter based sentimental analysis of Covid-19 observations” ,Materials Today <https://doi.org/10.1016/j.matpr.2022.05.194>(**Scopus Elsevier 2022**).
20. N.Mageshkumar, **A. Vijayaraj**, N.Anupriya, A.Sangeetha , “Efficient spam filtering through intelligent text modification detection using machine learning ” ,Materials Today (Elsevier) <https://doi.org/10.1016/j.matpr.2022.05.194>(**Scopus Elsevier 2022**). Volume 64, Part 1, 2022, Pages 848-858
21. **Dr.A.Vijayaraj**, Ch.Pavankumar & Sk.MohammadAshraf, “College Students Depression Recognition Using Deep Integrated Support Vector Algorithm”, Journal Of Optoelectronics Laser ISSN: 1005-0086, Volume 41 Issue 6, 2022. (**Scopus 2022**).
22. **A.Vijayaraj** ,M.Vijay Anand,N.Mageshkumar, S.Deepan, SP.Karuppiah, “Allocating Resources in Load Balancing Using Elastic Routing Table” , Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 6, Pages. 13051 – 13063, 2021(**Scopus 2021**).
23. **A.Vijayaraj** , Pavithra P, N.Maheshkumar, R.Jebakumar, Adlin Sheeba N.ArunPriya, “Dynamic Service Orient Target Analysis Model for Improved Intrusion Detection in Cloud” , Design Engineering, ISSN: 0011-9342 | Year 2021, Issue: 8 | Pages: 1278-1289(**Scopus 2021**).
24. **Dr.A.Vijayaraj**, Magesh Kumar N, “Enhanced Health-Care Protection Using Advanced Encryption Standard and DiffieHellman Key Exchange Algorithm”, International Journal of Advanced Trends in Computer Science and Engineering, Advanced Trends in Computer Science and Engineering, ISSN 2278-3091, Vol.10 No.2 , 2021(**Scopus 2021**).
25. **A.Vijayaraj**, P.Gururama Senthilvel , Vasanth Raj P.T, P.Ramadoss, K.Mariappan, “Enhancing Video Quality of Service by using Zone Routing Protocol in Wireless Networks” , Turkish Journal of Computer and Mathematics Education, Vol.12 No.6, Pages: 3779-3790, 2021(**Scopus 2021**).
26. **A.Vijayaraj**, R.M.Suresh, S.Poonkuzhali “Load Balancing In Wireless Networks Using Reputation-Reds In The Magnified

	Distributed Hash Table”, Multimedia Tools and Applications, ISSN 1380-7501, Anna University Annexure I(Springer 2018). 27. A.Vijayaraj , G.K Arun Keshav “Data Leakage Detection and Prevention” , International Journal of Information Technology(Scopus Indexed) (IIJIT) , Vol 7, Issue 3, Pp:26-31, 2019. 28. P.T. Vasanth Raj, A. Vijayaraj, “Home-To-Home Media Streaming System Based on Adaptive Fast Replica”, International Journal of Computer Sciences and Engineering(IJCSE),Pp:716-719,Vol.-7, Issue-6, 2019. 29. L.Siva Naga Malleswara Rao ,Dr.A.Vijayaraj, “During COVID-19: The matching of hemoglobin for O₂ is not enhanced” , Journal of Information and Computational Science, Volume 12 Issue 6 – 2022. (UGC Care II) 30. A.Vijayaraja , A.Venkata Sowmya, “ Predict the Severity of Crime based on Classification method” , Journal of Information and Computational Science, Volume 12 Issue 6 – 2022. (UGC Care II). 31. Dr.A.Vijayaraj, Mohankumar.T, Mathivanan.C.U, “Implementation of City Bus Monitoring and Management System”, Journal of Xidian University (Sikshya ‘O’ Anusandhan (SOA) UniversityScopus indexed) , Volume 14, Issue 4, Pp:294-303, 2020. 32. Dr.A.Vijayaraj, Irene John Ukken, Karunya.S, Sathish Raj.G , “Data Security in Cloud Computing using Three Way Mechanism”, International Journal of Engineering and Advanced TechnologyVol-9 Issue-4, Pp: 2249-8958, 2020(Scopus indexed). 33. A.Vijayaraj , R.Srinithi, “Traffic Control System Using Pi Camera”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 8, Issue 3, Pp:2126-2132, 2019. 34. A.Vijayaraj, R.M.Suresh, S.Poonkuzhali “Node Discovery With Development Of Routing Tree In Wireless Networks” Cluster Computing - The journal of Networks, Software Tools and Applications, ISSN 1386-7857, Anna University Annexure I(Springer 2017). 35. A.Vijayaraj, R.M.Suresh, “Route Selection In AODV Protocol Based On Link Quality Measurement Using Cross Layer
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44. M.Gangadevi, **A.Vijayaraj** “Categorizing Packet Loss in Disruption Tolerant Network”- published the paper in International Journal of Advancements in Research & Technology, volume 2, Issue 3, 2013.
45. B.Sakthisaravanan, R.Dheenadayalu,**A.Vijayaraj** “Improving Efficiency and Security Based Data Sharing in Large Scale Network “- International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 1, Pp 120-128, 2013.
46. S.Ravichandran, **A.Vijayaraj** “Discovering and Validating Missing Links in the Internet Topology “- International Journal on Computer Science and Engineering (IJCSE) ISSN: 0975-3397 Vol. 3 No. 9, Pp 3291-97, 2011.
47. M.Sanjay Ram, **A.Vijayaraj** “Analysis of the characteristics and trusted security of cloud computing “- International Journal on Cloud Computing: Services and Architecture (IJCCSA), Vol.1, No.3, Pp 61-69, 2011.
48. R.Srinivasan, **A.Vijayaraj** “Mobile Communication Implementation Techniques to improve last high speed FSO Communication”, Trends in Network and Communications, Springer, Berlin, Heidelberg, Pp 55-63, 2011.
49. N.Velmurugan, **A.Vijayaraj** “Visual Pixel Expansion of Secret Image” in Global Journal of Computer Science and technology 11 Issue 20 ,Pp 85-88, 2012.
50. S.Thirukumaran,M.SanjayRam,**A.Vijayaraj** “Security Perspective of Cloud Computing with Survey of Security Issues”, published the paper in Journal of Global Research in Computer Science, volume 3 – No.1, 2012.

	51. R.Saravanan, A.Vijayaraj “Home Security Using Zigbee Technology”- published the paper in International Journal of Computer Science and Information Technology & Security (IJCSITS) volume 1 – No.2, 2011. 52. A.Vijayaraj, P.Dineshkumar “Design and Implementation of Census Data Collection System Using PDA”- published the paper in International Journal of Computer Applications volume 9 – No.9, 2010. 53. A.Vijayaraj, R.Saravanan “Automated EB Billing System Using GSM and Ad-Hoc Wireless Routing “-International Journal of Engineering and Technology Vol.2 (5), , Pp 343-347 , 2010. 54. A.Vijayaraj , N.Velmurugan “Limited Speech Recognition for Controlling Movement of Mobile Robot” - International Journal of Engineering Science and Technology, Volume 2, Pp10-15, 2010, 55. P.Dineshkumar, R.Saravanan,A.Vijayaraj “Kinder garden Security System Using GPS And GPRS” , International Journal of Computer Networks and Wireless Communications (IJCNC) Vol. 1, No. 1, Pp 61-68, 2011. 56. K.Sureshkumar,A.Vijayaraj “Unmanned Aerial Vehicles Imagery For Monitoring Intruder In A (Dense Terrain) War Zone”, International Journal of Engineering Science and Technology Vol. 2(9), Pp 4595-4602, 2010, 57. N.Velmurugan, A.Vijayaraj “Efficient Query Optimizing System for Searching Using Data Mining Technique”, International Journal of Modern Engineering Research (IJMER), Vol.1, Issue.2, Pp-347-351. 58. R.V.Aswiga, A.Vijayaraj, M.Rajaramya “High Range Inquiry Dispensation and Blunder Restraint with Load Balancing in Intelligent VANET “, International Journal of Research in Engineering & Advanced Technology, Volume 2, Issue 5, 2014. 59. A.Vijayaraj “Resource Efficient Wireless Sensor Networks for Temperature and Gas Monitoring “ , International Journal of Research in Engineering & Advanced Technology, Volume 2, Issue 6,Pp 33-38, 2015.
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**IEEE INTERNATIONAL CONFERENCES
(Scopus/WoS indexed only)**

Overall: 32 After Joining RMK: 17

60. **A. Vijayaraj**, P. Rajeswari,P. Kumar,V Shahana,N. Mageshkumar,Padmalosani Dayalan, “A Decision Tree Model-Based Classification of Abnormal Red Blood Cells”, 2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), DOI: 10.1109/ICDSAAI65575.2025.11011596,2025.

61. Dr.A.Anna Lakshmi, **Dr.A.Vijayaraj**, C K Sruthi Shree, Shai Kumar R,, Santhosh V, Tharun Kumar S, “Artificial Intelligence Enhanced Virtual Reality Surgery Training”, 025 2nd International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE), DOI: 10.1109/RMKMATE64874.2025.11042515, 2025.

62. **A. Vijayaraj**, Dr. P.Kumar, Dr. P. Shobha Rani, Dr.V.P. Murugan, V Shahana, P M Anusha, “A Decision Tree Model-Based System for Categorizing Aberrant Red Blood Cells”, 2024 International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA), DOI: 10.1109/ARIIA63345.2024.11051423, 2025.

63. Kumar P, **Vijayaraj A**, Senthil Pandi. S; Venkatesh Prabhu Balakrishnan, “Sales and Inventory Demand Forecasting Using Machine Learning”, 2nd International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS), DOI: 10.1109/ICETEMS64039.2024.10964960, 2025.

64. Kumar P, Venkatesh Prabhu Balakrishnan, Senthil Pandi. S, **Vijayaraj A**, “Agricultural Product Price and Crop Prediction based on Data Science Technique”, 2024 International Conference on Smart Technologies for Sustainable Development Goals

	(ICSTSDG), DOI: 10.1109/ICSTSDG61998.2024.11026695, 2025. 65. Vigneshwaran N, A. Vijayaraj, V.P. Murugan, Jebakumar Jebakumar, N. Mageshkumar, “Machine Learning-powered Job Offer Verification”, 2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), DOI: 10.1109/ICDSAAI65575.2025.11011776, 2025. 66. Vigneshwaran N, A. Vijayaraj, V. P. Murugan, R. Jebakumar, N. Mageshkumar R. Megavannan, “Cognitive Large Language Model in Social Media with Local Memory”, 2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), DOI: 10.1109/ICDSAAI65575.2025.11011588, 2025. 67. Dr.A.Vijayaraj, Dr. Padmalosani Dayalan, Kalaiyarasi I, KamalaVasanthi S, Kalaivani I, YogeshKannan S, “ The Digital Revolution in Fashion Discounts: A Study on Coupon Exchange”, The International Conference on Machine Learning and Autonomous Systems (ICMLAS-2025), 10.1109/ICMLAS64557.2025.10967743, 2025, 68. Kumar P, Vijayaraj A, Senthil Pandi. S; Venkatesh Prabhu Balakrishnan, “Using Machine Learning to Predict Constant Obstructive Pneumonic Infection” , <u>2024 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON)</u>, <u>10.1109/EDKCON62339.2024.10870855</u>, 2025. 69. A. Vijayaraj, V.P. Murugan R. Megavannan V. R. Thejeshwar, Hamelda Lourdus Mary A, Dhiya Shree S, “Echo Trade: Transforming Waste into Wealth Through Sustainable Auctions”, 2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), DOI: 10.1109/ICDICI62993.2024.10810903. 70. Kumar P, Vijayaraj A, Senthil Pandi. S; Venkatesh Prabhu Balakrishnan, “Using Machine Learning to Predict Constant Obstructive Pneumonic Infection” , 2024 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), <u>10.1109/EDKCON62339.2024.10870855</u>, 2025.
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	71. A. Vijayaraj, Shaikumar R, Pradeep K, Santhosh V, Sarvana Prabhu. A. N, Tinku Abenas T, “A Comparative Analysis on AI-Driven Speech Protection Approaches”, 2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), DOI: 10.1109/ICDICI62993.2024.10810982. 72. Kumar, A Vijayaraj, S Senthil Pandi,Venkatesh Prabhu Balakrishnan, “AI Based Prescient Upkeep for Plane Frameworks” , 2024 7th International Conference on Contemporary Computing and Informatics (IC3I), DOI: 10.1109/IC3I61595.2024.10829267 73. R. S. M. Lakshmi Patibandla, D. Madhusudhana Rao, B. Tarakeswara Rao, and A. Vijayaraj, Building a Better World: The Quest for Global Sustainable Development, CRC Press, Taylor & Francis. https://www.appleacademicpress.com/sustainability-and-sustainable-development-from-vision-to-reality/9781998511525. 74. Dr.A.Vijayaraj, Dr.V.P. Murugan, Dr,R.Jebakumar, Gaurav N V, “A Sentimental Analysis Approach for Personalized Drug Recommendations Using Machine Learning”, 2024 International Conference on Computing and Data Science (ICCDS-2024), DOI: 10.1109/ICCDS60734.2024.10560460. 75. A.Vijayaraj, Goutham M.L.N., Tamidala Devika Reddy, Harika, A. (2024), “The Outcome of Social Media User Behavior on Safety and Secrecy Pressures” , Data Engineering and Applications. IDEA 2022. Lecture Notes in Electrical Engineering, vol 1189, pp 361–374. Springer, Singapore. https://doi.org/10.1007/978-981-97-2451-2_24. 76. V.P. Murugan, V. R.Thejeshwar, A.Vijayaraj, K Saravanan, “Analysis of Stock Market Predicting Future Trend using ML”, 2024 International Conference on Computing and Data Science (ICCDS-2024), DOI: 10.1109/ICCDS60734.2024.10560379. 77. A. Vijayaraj, V.P. Murugan, Sudhir R, Rithik Raja S, “Enhancing Security for Dual Access control for Cloud Based Data Storage and Sharing”, International Conference on Computing and Data Science (ICCDS-2024), DOI: 10.1109/ICCDS60734.2024.10560374.
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	Institute of Technology and Sciences, Coimbatore, Page no: 393-397, April 2022 . 84. Vijayaraj A, Dhanagopal.R, Sureshkumar R, Ayyadurai M, Vasanth Raj PT, “Unification of Multiple Bank Cards and Smart Card with Formula Based Authentication in Big Data” , IEEE 6th International Conference on Devices, Circuits and Systems (ICDCS), Karunya Institute of Technology and Sciences, Coimbatore, Page no: 418-422, April 2022 . 85. Ayyadurai M, Vasanth Raj PT, Vijayaraj A, Dhanagopal.R, Sureshkumar R, “Hybrid Atom Search-Heap Energy Optimization Algorithm for Dynamic Topology in Underwater Acoustic Sensor Network” , IEEE 6th International Conference on Devices, Circuits and Systems (ICDCS), Karunya Institute of Technology and Sciences, Coimbatore, Page no: 472-476, April 2022 . 86. Sureshkumar R, Ayyadurai M, Vasanth Raj PT, Vijayaraj A, Dhanagopal.R, “LoRa Faceted Device Assisting Women’s Safety” , IEEE 6th International Conference on Devices, Circuits and Systems (ICDCS), Karunya Institute of Technology and Sciences, Coimbatore, Page no: 423-426, April 2022 . 87. S.Arivoli, P.T.Vasanthraj,A.Vijayaraj, “Analysis of double space time diversity - CDMA system for frequency selective channel”, IEEE International Conference on Computer Communication and Informatics(ICCCI) , Jan’2020. 88. A. Vijayaraj ,S. Indhuja “Detection of malicious nodes to avoid data loss in wireless networks using elastic routing table” IEEE Third International Conference on Sensing, Signal Processing and Security (ICSSS), October 2017. 89. S. Avudai Selvi, A. Vijayaraj “Increasing quality of service in video traffic using zone routing protocol in wireless networks” IEEE World Conference on Futuristic Trends in Research and Innovation for Social Welfare (Startup Conclave), 2016. 90. N. Lakshmi Pritha,N.Velmurugan,S.GodfreyWinster, A. Vijayaraj - “De-duplication based storage and retrieval of data from cloud environment” IEEE International Conference on
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	Innovation Information in Computing Technologies (ICIICT), 2015. 91. A. Vijayaraj, R.M. Suresh, K. Devi - “Load balancing algorithm using reputation-ReDS in the magnified distributed hash table” IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), 2015. 92. A.Vijayaraj, R.M. Suresh, K. Raghavi “Packet classification using elliptical priority scheduling in wireless local area networks for congestion avoidance” IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), 2015. 93. M.S.Gayathri,S.TamilSelvi, A. Vijayaraj,S. Ilavarasan - “Trinity tree construction for unattended web extraction” IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), 2015. 94. Vijayaraj.A, Anburajam.M , “Optimized Resource Utilization in Network Environment “, International Conference on Science and Innovative Engineering 5th & 6th April 2014, Chennai, India. ISBN 978-81-904760-5-8. 95. A.Vijayaraj -“Optimized Resource Utilization in Network Environment” published the paper in International Conference on Science and Innovative Engineering held on 5th&6th , ISBN 978-81-904760-5-8, 2014. 96. A. Vijayaraj ,U.Sudharshana, “Construction of Routing Tree and Node Discovery in Wireless Networks” IEEE International Conference on communication and signal processing, April 3-5, 2014. 97. A.Vijayaraj, “International Conference on Recent Trends in Science and Technology” held on 2nd and 3rd Organized by Sathyabama University Chennai, 2007.
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Patent Published 21

Overall: 21

After Joining RMK: 11

98. Application No: : 202541012918 A

Date of Publication : 21/02/2025

Patent Name : Enhanced Data Encryption Algorithm for Secure Mobile Payments in IoT Ecosystems.

Link: :

<https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>

99. Application No: : 202541013177 A

Date of Publication : 21/02/2025

Patent Name : Human Tracking Bot Using Sensor Fusion

Link: :

<https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>

100. Patent Number : 202441029740

Date of Publication : 19/04/2024

Patent Name : IoT Based Oxygen supply system

101. Patent Number : 202441044799

Date of Publication : 21/06/2024

Patent Name : Applying machine learning algorithms to categorize a dataset of mobile phone price information

Link:

<https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

102. Patent Number : 398899-001 **Design patent**

Date of Publication : 01/11/2023

Patent Name : Internet Of Things Based Air Quality Sensor Device

103. Patent Number : 202441009140

Date of Publication : 11/02/2024

Patent Name : IoT Monitoring System for Detecting Harmful Gases and Fires in Work Field

Link:

<https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

104. Patent Number : 202221075727

Date of Publication : 27/01/2023

Patent Name : IoT-Based Pesticide Control System For Sugarcane Using Machine Learning

	Approach Link: https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus 105. Patent Number : 202341049441 Date of Publication : 21/07/2023 Patent Name : An Intelligent System for Weather Monitoring and Natural Disasters Prevention Using Internet of Things Link: https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus 106. Patent Number : 6324846 Design patent Date of Publication : 18/11/2023 Patent Name : An IOT & AI based Pneumonia Detection Device 107. Patent Number : 202341049441 Date of Publication : 01/09/2023 Patent Name : An Intelligent System for Weather Monitoring and Natural Disasters Prevention Using Internet of Things 108. Patent Number : 202041010986 Date of Publication : 20/03/2020 Patent Name : Image Captcha Cropping Using Symbols (ICS) Link: http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_4855_1/Part-1.pdf 109. Patent Number : 202041056197 Date of Publication : 01/01/2021 Patent Name : Data Transfer through 5G Mobile Device Link : https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4939_1/Part-1.pdf 110. Patent Number : 202041056199 Date of Publication : 08/01/2021 Patent Name : Reason Gap Infection in Huge Networks Link : https://ipindia.gov.in/writereaddata/Portal/IPOJournal/1_4941_1/Part-1.pdf 111. Patent Number : 202231030959
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	Date of Publication : 01/07/2022 Patent Name : IoT gateway, a method for bridging various Wireless sensor networks Link: https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus
	112. Patent Number : 202241069747 Date of Publication : 09/12/2022 Patent Name : Method for Predictive Load Balancing in Cloud Services Link https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus
	BOOK CHAPTER 1. Vasanth Raj P. T. Archana N. Sudhakar J. Vijayaraj A. Uma Haimavathi K. “Bio signal and Image Processing in Telemedicine” Advancement, Opportunities, and Practices in Telehealth Technology: 9781668452318: Medicine & Healthcare Books IGI Global, Pp 138-159 (Scopus Indexed). 2. R. S. M. Lakshmi Patibandla, D. Madhusudhana Rao, B. Tarakeswara Rao, and A. Vijayaraj, Building a Better World: The Quest for Global Sustainable Development, CRC Press, Taylor & Francis. (Scopus Indexed). https://www.appleacademicpress.com/sustainability-and-sustainable-development-from-vision-to-reality/9781998511525. <u>Book publications:</u> Total : 6 Books 1. Published the book on “C Programming” by QUILL TECH 2025 https://isbn.gov.in/Home/SearchIsbnNew 2. Published the book on “Database Management Systems” by QUILL TECH 2024 https://isbn.gov.in/Home/SearchIsbnNew 3. Published the book on “Wireless Communication and Networking” by Book Rivers 2023. https://www.amazon.in/Wireless-Communication-Networking-Dr-Vijayaraj/dp/9355159404. 4. Published the book on “Digital Logic Circuits and Computer Design” by Scientific International Publishing House 2022. https://www.flipkart.com/digital-logic-circuits-computer-design/p/itm5db1780e6eb7e 5. Published the book on” Data Structures “by Charulatha Publications 2019.

	6. Published the book on “ Object Oriented Analysis and Design ” by Subhiksha Publication 2015.
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PROFESSIONAL BODIES:	Count:10
Memberships:	● Life Member in ISTE - LM54893 ● IEEE Member - 100545804 ● Member in CSI - N1059 ● IAENG - 162509 ● CSTA - 7229190 ● UACEE - AM10100053884 ● SDIWC - 8735 ● NEW RAINS -AM030 ● IASTER ● the IRED

Consultancy Projects Completed	Count: 7 • Received 66000 from 8Queens Software Technologies Private Limited for the Consultancy Work on PrepareNext Web and Mobile Application (2025). • Received 52000 from Sree Venkateswara Tex for the Consultancy Work on Website Design (2024). • Anna University Sponsored FDTP on Mobile Communication Fund Received Rs 80,000/- (2015). • Tamil Virtual Academy – Government of Tamilnadu - Fund Received Rs 25000/- (2016). • Organized FDP on Foundation Program in ICT for Education & Pedagogy for Online and Blended Teaching-Learning Process sponsored by IIT Bombay, Conducted under the National Mission on Education through ICT by MHRD Fund Received Rs,1,21,000/- (2017). • Applied (DST – SERB) Department of Science and Technology - Science and Engineering Research Board. Cost of project is 8,76,565 - 24 Months Project title - Smart Bottle Health Care Technologies using IOT
Awards Received	Count: 6 ➤ Best Faculty Advisor Award in recognition of outstanding contribution and active involvement in promoting the Professional Society Activities in IE(I) for academic year 2024-2025. ➤ Received Best Researcher Award, In Collaboration of University of Trunojoyo, Madura (Indonesia) & Universitas Negeri Surabaya (Indonesia) & IDEI (Indonesia) On the Eve of Teacher's Day Sep'2023 ➤ Received Best Teacher Award from Vignan's Foundation for Science, Technology & Research Vadlamudi, Guntur for academic year 2021-2022. ➤ Received Best Teacher Award from Saveetha Engineering College for academic year 2009-2010. ➤ Received Best Teacher Award from Saveetha Engineering College for academic year 2007-2008.

	➤ Received Best Teacher Award from Sri Sastha Institute of Engineering And Technology for academic year 2002-2003.
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Research grants Received	Nil
Orchid Link/ ID	ORCID ID: 0000-0002-1942-3519 http://orcid.org/0000-0002-1942-3519
Google Scholar Link/ID	https://scholar.google.com/citations?user=6-fWDF0AAAAJ&hl=en
Vidwan Link / ID	Vidwan id: 183416
Research Gate Link/ID	https://www.researchgate.net/scientific-contributions/A-Vijayaraj-2162533378
Scopus Link /ID	Author ID: 57189071521 https://www.scopus.com/authid/detail.uri?authorId=57189071521
Journal Reviewers	➤ International Journal of Computer Science and Information Technology. ➤ International Association of Engineers. ➤ International Journal of Wireless Communications and Mobile Computing ➤ Material today, Elsevier ➤ Journal of Intelligent & Fuzzy Systems ➤ Arabian Journal for Science and Engineering (AJSE) ➤ Journal of Ambient Intelligence and Smart Environments ➤ SN Computer science Journal