

Dr. R. Vijayalakshmi, B.E., M.E., Ph.D.
 Associate Professor/CSE
 Velammal College of Engineering and Technology, Madurai
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 Blog Address: -

Educational Qualification:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College & University	% of Marks / Grades Obtained	Class Obtained
UG	B.E	CSE	1998	VRS College of Engineering and Technology, Madras University	68	First class
PG	M.E	CSE	2009	Muthayammal Engineering College , Anna University, Chennai	78	First class with Distinction
Ph.D.		ICE	2018	Anna University, Chennai	-	-

Experience in Years: 21 Yrs

Name of the College	Designation	Experience	
		Years	Months
Velammal College of Engineering and Technology (03.06.2019 to till date)	Associate Professor	1	10
Muthayammal Engineering College (12-08-2002 to 31.05.2019)	Associate Professor	16	9
Raja College of Engineering & Technology (25.06.2000 to 31.07.2002)	Lecturer	2	1
Total		21	-

Interested Research Areas: Data Mining

Patent Publications:

1. Dr.R.Vijayalakshmi “Method ,Utility and Device based on Internet of Things(IoT) for Pandemic Disease Surveillance and Prediction” Application No:202041050703,Publication Date 1st January 2021
2. Dr.R.Vijayalakshmi “AI Based Womwn and Child Safety Device “Application No:20214005120,Publication Date 12th February 2021

Journal Publications:
1. Dr.R.Vijayalakshmi”Efficient Classification of Heart Disease using K-Means Clustering Algorithm”International Journal of Engineering Trends and Technology,Volume 8,Issue 12,December 2020
2. R.Vijayalakshmi “Detecting Spammers in Social Media using Data Mining Techniques” ,International Journal of Innovative research in Computer and Communication Engineering, Volume 8,Issue 4,April 2020
3. R.Vijayalakshmi “An Artificial Intelligence Powered Ticket Booking Chatbot” ,International Journal of Innovative research in Computer and Communication Engineering, Volume 8,Issue 4,May 2020
4. R.Vijayalakshmi “Enlarging Text for Individuals suffering from low vision ” , International Journal of innovative Technology and Exploring Engineering , Volume 9,Issue 2,December 2019
5. R.Vijayalakshmi .”Intellectual Resource Sharing Scheme in Cloud Environment” Journal of Advanced Research in Dynamical and Control systems,Volume 11,Issue 10,October 2019
6. R.Vijayalakshmi”Energy Efficient Unauthorized Intrusion Detection in Mobile AD-HOC Networks”International Journal of Recent and innovation Trends in Computng and Communication,2017
7. R.Vijayalakshmi “Enhancing the ability of the hybrid wireless network using distributed multipath routing protocol”Vol.3,Issue 11,Nov 2015 ,IJRCCE
8. R.Vijayalakshmi & Dr.S.Selvarajan “A Decision Support System for detecting the stages of Diabetic Retinopathy by using Fundus Images”Vol.9,Aug 2015 ,JPAM
9. R.Vijayalakshmi & Dr.S.Selvarajan “Application of various Segmentation Algorithms on Diabetic Retinopathy Eye Images”Vol.9 ,Aug 2015,JPAM
10. R.Vijayalakshmi & Dr.S.Selvarajan “ Detection and Classification of Diabetic Retinopathy using Fuzzy C-Means Clustering Algorithm”Vol.10,No.9, 2015,IJAER
11. R.Vijayalakshmi “ Detection of Diabetic Retinopathy using splat feature classification in funds iage “Vol.111,No.16, 2015,IJCA

12. R.Vijayalakshmi “ Unsupervised active learning classification for detecting retinal hemorrhage in digital funds image”Vol.4,No.6, May 2015,IJRSET
13. R.Vijayalakshmi “ Lung nodule detection based on semi supervised classification”Vol.4,No.6, May 2015,IJRSET
14. R.Vijayalakshmi “ Enabling data integrity protection for cloud bandwidth problem using MSCR and MBCR codes”Vol.4,No.6, May 2015,IJRSET
15. R.Vijayalakshmi “Semi supervised learning for classification of lung –A Survey”ISSN 2348-8387 2015,IJCSE
16. R.Vijayalakshmi “Remote controlling PC smartphone inputs from remote place with internet” ISSN 2348-8387 2015,IJCSE
17. R.Vijayalakshmi & Dr.S.Selvarajan “ Comparative Studies on Canny and Sobel Edge Detection Techniques”Vol.9,No.4, 2014,IJSC (Annexure II)
18. Dr.S.Selvarajan & R. Vijayalakshmi, published a paper on “Segmentation of Diabetic Retinopathy Retinal Eye Image using Ant Colony Optimization Algorithm”, International Journal of Advances in Computer Science and its applications, Volume 01, Issue 01 ,January 2014
13. R.Vijayalakshmi, ”Enabling High Performance Computing In Cloud Infrastructure Using rCUDA”. International Journal Of Computer Science And Information Technologies, Vol 5Issue 3 2014,ISSN 0975-9646,pp. 4155-4161@ijcsit.com ,India
14. R.Vijayalakshmi”Visual Dictionary: A Decision Support Tool For DR Pathology Detection On POI”. International Journal of Futuristic Science Engineering And Technology, Vol 1 Issue 2 Feb 2013,ISSN 2320-4486,pp. 115-120@ijfset.org ,India.
15. R.Vijayalakshmi(2013),”Detection Of Non- Proliferative Diabetic Retinopathy In Fundus Images Of The Human Retina ”. International Journal of Futuristic Science Engineering And Technology, Vol 1 Issue 2 Feb 2013,ISSN 2320-4486,pp. 103-108@ijfset.org ,India.
16. R.Vijayalakshmi(2013),”Identification of Diabetic Retinopathy using Canny Edge Detection of Eye Image and Data Mining” on Jan 2013.
17. Dr.S.Selvarajan & R. Vijayalakshmi, published a paper on “Novel Fuzzy Association Rule Mining Algorithm For Diabetic Retinopathy”, International Journal of Communications and Engineering, Volume 04, No.1,Issue March 2012.
Conference Publications:
1. Dr.R.Vijayalakshmi “An Automatic Procedure for Crop Mapping using Agricultural Monitoring”International Conference on Mechatronics and Artificial Intelligence,SGT University,Gurugram,Haryana,February 26 th and 27 th ,2021
2. R.Vijayalakshmi”IOT – Bases Remote Drips Infusion and Glucose Monitoring System”International Conference on Information Sciences and Renewable Energy Sources,Selvam College of Technology,Namakkal,7 th and 8 th March 2019

3. R.Vijayalakshmi ” Searchable Symmetric Encryption:Top-K Query Processing for Tiered Sensor Networks” International Conference, on Innovations in Science, Engineering and Technology for Sustainable Development,organized by Muthayammal Engineering College on March 30-31,2018.
4. R.Vijayalakshmi ” Travel Route Recommendation System Using API Key ” International Conference, on Innovations in Science, Engineering and Technology for Sustainable Development,organized by Muthayammal Engineering College on March 30-31,2018.
5. R.Vijayalakshmi ” IO2S Password Authentication Key Exchange” International Conference, on Innovations in Science, Engineering and Technology for Sustainable Development,organized by Muthayammal Engineering College on March 30-31,2018.
6. R.Vijayalakshmi ” Searchable Symmetric Encryption:Top-K Query Processing for Tiered Sensor Networks” National Conference on High Performance Computing and Communications, Organized by Kongu Engineering College on February 09,2018.
7. R.Vijayalakshmi “ Analysis of IRIS Images Using Directional Rank Filters” International Conference, in systemic ,Cybernetics and informatics, March 09-12,2017
8. R.Vijayalakshmi “ Increasing the capability of hybrid wireless network through multipath routing protocol, International conference on engineering technology and science,Muthayammal engineering institutions, 18 &19 March 2016
9. R.Vijayalakshmi “ Lung nodule detection based on semi supervised classification” International Conference, MEC 29,30 April 2015
10. R.Vijayalakshmi “ Cloud based live and on demand mobile social tv ;cloud MoSoT” International Conference, MEC 29,30 April 2015
11. R.Vijayalakshmi “ Unsupervised active learning classification for detecting retinal hemorrhage in digital funds image” International Conference, MEC 29,30 April 2015
12. R.Vijayalakshmi & Dr.S.Selvarajan “ Detection and Classification of Diabetic Retinopathy using Fuzzy C-Means Clustering Algorithm” International Conference, MEC, 5,6, March 2015
13. R.Vijayalakshmi “ Supervised learning approach to detect retinal hemorrhage in funds image” NCNC, SMK Fomra ,March 13 2015
14. R.Vijayalakshmi “Semi supervised learning for lung nodule classification”ICRTECCT, MARCH 5,6 2015, Sri Ramanathan Engg College,Tirupur.
15. R.Vijayalakshmi , (2013).”Detection And Classification Of Macular Edema And Microaneurysm To assit Diabetic Retinopathy”,3 rd National Conference On Computing And Communication Technologies,9 th Feb 2013 at Angel College Of Engineering And Technology ,Tirpur, India.

<p>16. R.Vijayalakshmi & Dr.S.Selvarajan (2013).”Segmentation Of The Retinal Eye Image Affected By Diabetic Retinopathy Using Random Walker Method”,International Conference On advanced Computer Science And Information Technology, 24th Feb 2013 at Coimbatore,India</p>
<p>17. R.Vijayalakshmi & Dr.S.Selvarajan (2013).” Segmentation Of Diabetic Retinopathy Retinal Eye Image Using Mean Shift Algorithm “, International Conference On Computer Science and Information Technology ,17th Feb 2013 at Coimbatore,India.</p>
<p>18. R.Vijayalakshmi & Dr.S.Selvarajan (2013).”Prediction And Analysis Of Lag Of Accommodation Of Eye Using RAF Ruler And Taguchi Method”,International Conference On Recent Trends In Engineering And Technology, 13th January 2013 at Bangalore,India.</p>
<p>19. R.Vijayalakshmi & Dr.S.Selvarajan (2013),” Segmentation Of Diabetic Retinopathy Retinal Eye Image Using Ant Colony Optimization Algorithm “, Second International Conference On Advances In Computer and Information Technology, 4th -5th May 2013 at Kuala Lumpur, Malaysia</p>
<p>20. R.Vijayalakshmi & Dr.S.Selvarajan (2012).” Novel Fuzzy Association Rule Mining Algorithm For Detecting Diabetic Retinopathy “, International Conference On Advanced Computing Technology ,9th -10th March 2012 at J.K.K.Nattraja College of Engineering And Technology,Tamilnadu,India</p>
<p>21. R.Vijayalakshmi(2012),”An Optimized Method of Relevance Feedback by iterating Navigation patterns for content based image retrieval” on 22-24 Feb 2012 at PSNA College of Engineering and Technology,Dindugal, Tamilnadu,India.</p>
<p>22. R.Vijayalakshmi (2011),”Privacy Preservation of public data with multiple sensitive attributes” on Feb 24 2011 National Conference, SNS College of Technology</p>
<p>23. R.Vijayalakshmi (2011),”Closeness: A Privacy Measure for Multiple Sensitive Attributes” on Feb 18 2014 at Vidyaa Vikas College of Technology,Tiruchengode,Tamil Nadu, India.</p>
<p>24. R.Vijayalakshmi (2011),”Time efficient Visual Deep Web Data Extraction” on 24 Feb 2011 at SNS College of Technology, Coimbatore,Tamil Nadu, India.</p>
<p>25. R.Vijayalakshmi (2010),”Video Conferencing Streaming for rural upliftment on innovative computing technologies” organized by MKCE ICICT 2010.</p>
<p>26. R.Vijayalakshmi(2010), “Overall Performance degradation in Congested Sensor Networks on 20 April 2010 NCCT 2K10 at Sengunthar Engineering College, Tiruchengode, Tamil Nadu, India.</p>
<p>27. R.Vijayalakshmi(2008), “Application of Data Mining for Fault Diagnosis in Object Oriented Software” on 25-26 April 2008 at Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu, India.</p>

28. R.Vijayalakshmi (2009), “Image Retrieval based on keyword and visual features: A Survey” on NCACA 9 Feb 7-8 at P.S.G College of Technology.
29. R.Vijayalakshmi (2009), “Image Retrieval: Techniques, Challenges, Application and Future Directions” on 25-26 Sep 2009 at PSG College of Technology, Coimbatore,Tamil Nadu, India.
30. R.Vijayalakshmi (2007), “Distributed DataBase Architecture for Global Roaming in Mobile Network” , on 16 Mar 2007 at Mahendra Engineering College, Namakkal,Tamil Nadu, India.
31. R.Vijayalakshmi (2007), “Dyanamic and Adaptive Cache Retrieval Scheme in a Mobile Computing Environment” on 7 Mar 2007 at Vivekanadha College of Engineering, Tiruchengode.
32. R.Vijayalakshmi (2005), “E-Governance In India” on 29 Jul 2005 at Jayam College of Engineering and Technology, Dharampuri, Tamil Nadu, India
33. R.Vijayalakshmi (2009), “Clustering based Data Mining Technique for Network traffic analysis” on 24 April 2009 CTS 09 at Muthayammal Engineering College, Rasipuram,Tamil Nadu, India
34. R.Vijayalakshmi (2009), “Secure Content Processing and Distribution by Intermediaries” on 20 Feb 2009 organized by KSRCT, Tiruchengode, Tamil Nadu, India
35. R.Vijayalakshmi (2009), “Intercrossed Medium Access Control for Wireless Embedded Networks” on 27 Feb 2009 at Government College of Engineering, Salem, Tamil Nadu, India.

S. No.	Agency	No. of Papers Indexed	No. of Citations	h-Index	I10 Index
1.	Google Scholar	5	26	2	2
2.	Scopus	9	24	3	-