

**Dr.V.Akilandeswari, B.Tech (I.T), M.E (CSE), Ph.D**

Associate Professor and CSE

Velammal College of Engineering and Technology, Madurai

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Scopus Author ID: 55185237200

LinkedIn: <https://www.linkedin.com/in/dr-v-akilandeswari/>**Educational Qualification**

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University
PhD	Ph.D	Network Security and Machine Learning	2015	Thiagarajar College of Engineering, Madurai	Anna University
PG	M.E	Computer Science and Engineering	2010	Thiagarajar College of Engineering, Madurai	Anna University
UG	B.Tech	Information Technologies	2005	Thiagarajar College of Engineering, Madurai	Anna University

**Experience in Years: 16 Years****Employment History:**

Name of the Institution	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Velammal College of Engineering and Technology	Associate Professor	3.03.2024	Till now			
Sethu Institute of Technology	Associate Professor	18.11.2021	24.5.2024	2	6	6
K.L.N. College of Engineering, Pottapalayam, Sivagangai	Assistant Professor (AP Sr.Gr)	02.05.2016	15.11.2021	5	6	13
Thiagarajar College of Engineering, Madurai	TCS Research Scholar	01.06.2010	07.06.2015	5	-	6
Velammal Engineering College, Chennai	Research Associate	13.2.2007	30.9.2008	1	7	-
<b>Total</b>				<b>14</b>	<b>7</b>	<b>13</b>

## INDUSTRIAL EXPERIENCE

Name of the Organisation	Designation	Job Description	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Texas Technologies	Project Developer	Middleware Development	15.6.2007	12.2.2007	1	8	-
<b>Total</b>					1	8	-

**Interested Research Areas:** Network Security, Machine Learning (ML), Advanced Computer Vision -Augmented Reality (AR) and Virtual Reality (VR), Artificial Intelligence (AI)

### Scholarships and Awards received:

- a. TCS Research Fellowship (2010-2015)
- b. VMware Certificate
- c. NPTEL Elite Certificate on completion of “Outcome Based Pedagogic Principles for Effective Teaching”.
- d. Internship Certificate: Investment Grade Energy Audit 19, TUV SUD Mumbai (Nov 2017 to Feb 2018)
- e. Rs. 25 thousand Received as a cash prize for the project “Automated Onion Grading Machine for post harvesting internal and External Damage Defects” from Onion Grand Challenges of Minister of Consumer Affairs. (Stage I).
- f. Rs. 50 thousand Received as a cash prize for the project “Automated Onion Grading Machine for post harvesting internal and External Damage Defects” from Onion Grand Challenges of Minister of Consumer Affairs. (Stage II).
- g. Certificate of Appreciation for participation of reviewer in the 10<sup>th</sup> International Conference on Communication and signal Processing -ICCSP 2024 on April 2024
- h. Certificate of Appreciation for participation of reviewer in the CRC Press-Edited Book “ Adopting Artificial Intelligence Tools in Higher Education (Vol 1)-Teaching and Learning on June 2024.
- i. Outstanding Contribution Award for IJSTE - International Journal of Science Technology and Engineering (ISSN:2349-784X)
- j. Internship Certificate: Investment Grade Energy Audit 19, TUV SUD Mumbai (Nov 2017 to Feb 2018)
- k. Certificate of Completion on Online Crash Course on Introduction to Embedded System and Robotics Thjrough E-Yantra Lab Setup Initiative (eLSI),2022

### Funded Research Projects:

1. Mentor of TNSDC –Naan Mudhalvan AU Niral Thiruvizha (Hackathon) Even Semester 23-24 B.E/B.Tech. Final Year Student Project and received Rs.10 thousand amount for the project title “REMOTE SENSING DEVICE FOR THE PRECISION FARMING”
2. Rs. 12.75 lakhs Received as a Research Fund from MSME IDEA HACKATHON 2023 for Project Title “AR EduTech Interactive Robo for Autism Spectrum Disorder Children”
3. Rs. 12.75 lakhs Received as a Research Fund from MSME IDEA HACKATHON 2022 for Project Title “Smart Assistive Robot for Hearing Impaired Children”
4. Rs. 12.75 lakhs Received as a Research Fund from MSME IDEA HACKATHON 2022 Research project that entitled as “Automated Bagging Machine for the Oyster Mushroom Cultivation” for mentor
5. Rs. 75 thousand Received as a Research Grant for the project “Automated Onion Grading Machine for post harvesting internal and External Damage Defects” from Onion Grand Challenges of Minister of Consumer Affairs. (Stage I)
6. Rs. 5 Lakhs Received as a Research Grant for the project “Automated Onion Grading Machine for post harvesting internal and External Damage Defects” from Onion Grand Challenges of Minister of Consumer Affairs . (Stage II)
7. Rs. 75 thousand Received as a Research Grant for the project “ Hyperspectral-Supported Remote Sensing Device for Precision Agriculture Tomato Cultivation” from Tomato Grand Challenges of Minister of Consumer Affairs . (Stage I)
8. Research Fund Rs. 1 Lakh Received from Unnat Bharat Abhiyan for the project title Smart Agri Drone in the field of Sustainable Agriculture system 2018

**Patent rights received:**

- i. MACHINE LEARNING BASED GRADING DEVICE, Design No: 410594-001, Dated 15/03/2024
- ii. SMART VOICE ASSISTED LEARNING DEVICE FOR VISUALLY IMPAIRED STUDENTS, Design No: 392760-001, dated 14/08/2023
- iii. BIOSENSOR DEVICE TO DETECT LUNG CANCER USING MACHINE, Design No: 6295329, dated 17/02/2023

**Publications Details:**

**1. International Journal Publication Details:**

S.No.	National/ International	Title of the paper	Name of the Journal	Details (ISSN/ISBN/ pp /Month/Year )	Area of Publication
1	International	A Generic Approach for Detection of Copy-Move Forgery Detection	Springer Book Series	May 2024	Cyber Security

		Scheme from Digital Images			
2	International	Minimum Latency-Secure Key Transmission for Cloud-Based Internet of Vehicles Using Reinforcement Learning	Computational Intelligence and Neuroscience	Volume 2022, Article ID 6296841, 9 pages	Machine Learning
3	International	Enhanced Video Transmission using Binary Conversion	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	Volume 2 Issue 3 June 17 ISSN:2456-3307	Network Security
4	International	A Technical survey on secure video transmission	International Journal of Science Technology and Engineering	Volume 3, Issue 5, November 2016 ISSN (online): 2349-784X	Network Security
5	International	A Self-Organising Defense Technique for SSH Dictionary Attacks	International Information Institution	Vol.17, No.2, pp.821-834, 2014.	Network Security
6	International	Design of an Adaptive Distributed Critical-Care Extensive Response Network (AD-CERN) using Cooperative Overlay Network	International Journal of Sensor Networks	2014	Network Security

7	International	An integrated approach of E-RED and ANT classification methods for DRDoS attacks	Communications in Computer and Information Science	vol. 467, pp. 369–377. 2014	Network Security
8	International	Detecting DRDoS Attack By Log File Based IP Pairing Mechanism	WSEAS Transactions on Computers	vol. 13, pp. 538-548. 2014.	Network Security
9	National	Fractal dimension based time delayed neural network for nonlinear	Journal of the Institution of Engineers (India), Part CP: Computer Engineering	vol. 92, pp. 12–16. 2011	Network Security

### 3. International Conference Presentation Details:

S.No	National/ International	Title of the paper	Name of the Conference	Organizing Institute	Date	Area of Publication
1	International	Integration of IoT and GSM Technologies for Efficient Sewerage Monitoring in Urban Infrastructure	International Conference on Sustainable Infrastructure: Innovations, Opportunities, and Challenges (SIIOC 2024)	NITK Surakhtal	30.4.2024 and 1.05.2024	Sustainable Infrastructure
2	International	A Generic Approach for Detection of Copy-Move Forgery Detection Scheme from Digital Images	Ist International Conference on Machine Learning Algorithms ICMLA 2024	Chitkara University School of Engineering and Technology	23 & 24 Feb 2024	Machine Learning
3	International	Multi Classification of Hybrid BCI signal	10 <sup>th</sup> International Conference on Business Analytics and Intelligence	IISC Bangalore	18-20 December 2023	Intelligence System

4	International	Intelligent Remote Patient Monitoring Device using Machine Learning	International Conference on Emerging Trends in Information and Communication Technologies	Sethu Institute of Technology	5 & 6 April 2023	ICT
5	International	An interactive VR/AR-based Edutech immersive online learning Platform for Autism Spectrum Disorder (ASD) Children	International Conference on —Emerging Trends in Information & Communication Technologies  ETICT 2K23- April 5th & 6th 2023.	Sethu Institute of Technology	5 & 6 April 2023	ICT
6	International	Smart Watch Dog: Smart Intelligent Tracking Camera	International Conference on —Emerging Trends in Information & Communication Technologies  ETICT 2K23- April 5th & 6th 2023.	Sethu Institute of Technology	5 & 6 April 2023	ICT
7	International	Plant Disease Identification Using Deep Learning	International Conference on —Emerging Trends in Information & Communication Technologies  ETICT 2K23- April 5th & 6th 2023.	Sethu Institute of Technology	5 & 6 April 2023	ICT

8	International	Students Security System Using RFID	International Conference on —Emerging Trends in Information & Communication Technologies   ETICT 2K23- April 5th & 6th 2023.	Sethu Institute of Technology	5 & 6 April 2023	ICT
9	International	Augmented Reality Based Tamil Dictionary Mobile App	Online International Conference Approaches towards evolution of Tamil Computing	Tamil Virtual Academy	10.03.2021 and 11.03.2021	Augmented Reality
10	International	Augmented Reality based Tamil Language Learning Using Mobile App	Online International Conference Approaches towards evolution of Tamil Computing	Tamil Virtual Academy	10.03.2021 and 11.03.2021	Augmented Reality
11	International	Efficient Software Defined Networking Using IOT in Edge Computing	Kalasalingam Global Conference KGC-2019	Kalasalingam University	18.12.2020 to 20.12.2020	Network Security
12	International	Smart Intelligent Tracking Camera	AICTE Sponsored International Conference on Design and Application of Structures, Drives, Communication and Computing Systems ICDASDC-2017	KLN College of Information Technology	13.10.17	Internet of Technology

13	International	A Survey of Distributed Denial of Service (DDoS) Attacks in Cloud Computing Environment	AICTE Sponsored International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems ICDASDC-2017	KLN College of Information Technology	14.10.17	Network Security
14	International	The Protocol Independent Detection and Classification (PIDC) System for DRDoS	International Conference on Recent Trends In Information Technology	Anna University, MIT Campus, Chennai	10-12 April 2012	Network Security
15	International	Evaluation of Vulnerability in Large Scale Network	International Conference in Engineering and Technology (ICET 2K13)	Sri Venkateswara College of Engineering and	18 - 20, April 2012	Network Security
16	International	Unusual Attack Behavior Analysis For High Rate Flooding Attack Using	International Conference on Recent Trends in Computer Science and Engineering	Apollo Engineering College, Chennai	May 03, 2012	Network Security
17	International	Proactive Behavior Analysis Of Network Traffic Using SNMB-MIB Agents	International Conference on Recent Trends in Computer Science and Engineering	Apollo Engineering College, Chennai	May 03, 2012	Network Security



18	International	Probabilistic Neural Network based attack traffic classification	Fourth IEEE International Conference on Advanced Computing	MIT, Chennai	13-15 Dec. 2012	Network Security
19	International	Design of an Early Response System using EGT-based overlay network	International Conference on Recent Trends In Information Technology	MIT Chennai	19-21 April 2012	Network Security

#### 4. National Conference Presentation Details:

S.No.	National/ International	Title of the paper	Name of the Conference	Organizing Institute	Date	Area of Publication
1.	National	Statistical Approach for Privacy Preservation in Wireless Medical Sensor Network	National Conference on Big Data Analytics and Mobile Technologies	Thiagarajar College of Engineering	24-25 March 2017	Wireless Network Security
2.	National	End To End Guaranteed Secure And Efficient Video Delivery Through Encrypted In-Network Caching	International Conference on Newer Engineering Concepts and Technology (iConnect2k17)	K.Ramakrishna College of Technology	28 & 29 March 2017	Cloud Security
3.	National	Self-Healing System for Extended DDoS Attack	National Conference on Intelligent Systems And Communication (NCISC-2016)	Anna University, MIT Campus, Chennai	23-06-2016 to 24-06-2016	Network Security

## Google Scholar report:



**Dr. V. Akilandeswari**

FOLLOWING

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Verified email at vcet.ac.in

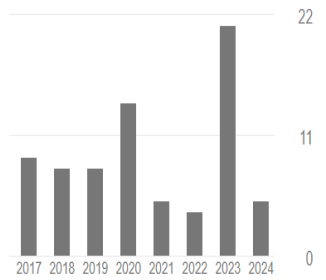
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<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	<a href="#">Probabilistic neural network based attack traffic classification</a> V Akilandeswari, SM <sup>(No Title)</sup> 2012 Fourth International Conference on Advanced Computing (ICoAC), 1-8	45	2012
<input type="checkbox"/>	<a href="#">Minimum Latency-Secure Key Transmission for Cloud-Based Internet of Vehicles Using Reinforcement Learning</a> V Akilandeswari, A Kumar, S Thilagamani, V Subedha, V Kalpana, K Kaur, ... Computational Intelligence and Neuroscience 2022 (1), 6296841	22	2022
<input type="checkbox"/>	<a href="#">The protocol independent detection and classification (PIDC) system for DRDoS attack</a> PM Priya, V Akilandeswari, SM Shalinie, V Lavanya, MS Priya 2014 International Conference on Recent Trends in Information Technology, 1-7	21	2014
<input type="checkbox"/>	<a href="#">Detecting DRDoS attack by Log File based IP pairing mechanism</a> V Akilandeswari, SM Shalinie WSEAS Trans. Computers 13, 538-548	3	2014
<input type="checkbox"/>	<a href="#">Design of an early response system using EGT-based overlay network</a> V Akilandeswari, D Namachivayam, S Prasanna, SM Shalinie 2012 International Conference on Recent Trends in Information Technology ...	3	2012
<input type="checkbox"/>	<a href="#">An Integrated Approach of E-RED and ANT Classification Methods for DRDoS Attacks</a> MohanaPriya, V Akilandeswari, G Akilarasu, SM Shalinie International Symposium on Security in Computing and Communication: Security ...	1	2014
<input type="checkbox"/>	<a href="#">Design of an adaptive distributed critical-care extensive response network (AD-CERN) using cooperative overlay network</a>	1	2014



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