

<b>Name &amp; Photo</b>	<b>Dr.R.VALARMATHI</b> 
<b>Designation</b>	<b>PROFESSOR</b>
<b>Qualification</b>	<ul style="list-style-type: none"> <li>● B.E (CSE) at SRM Engineering College, Madras University -1999</li> <li>● M.E(CSE) at Sathyabama University – 2010</li> <li>● Ph.D. Sathyabama Institute of Science and Technology 2020, <ul style="list-style-type: none"> <li>○ Title: Novel Scheduling Algorithms for Parallel Workloads in Cloud</li> </ul> </li> </ul>
<b>Area of Specialization</b>	Cloud Computing, Machine Learning, Computer Vision, Deep Learning
<b>Experience</b>	Teaching Total : 25 Years UG with 25 Years PG with 15 Years
	Industry : Nil
<b>Publication</b>	Patent Published:3 International Journal:43 International Conference: 17 SCI:3 Scopus:32 Books : 05 Book Chapter : 09
<b>Research Guidance:</b>	NIL
<b>Professional Society Membership</b>	<ul style="list-style-type: none"> <li>● Life Member, Indian Society for Technical Education(LM 131577)</li> <li>● Life Member, International Association for Engineers (IAENG)</li> <li>● Life Member ,International Association of Computer Science and Information Technology(IACSIT)</li> <li>● IEEE Membership(98092345)</li> </ul>

<b>Programs Organised</b>	<ul style="list-style-type: none"> <li>● Conducted 2 days FDP on Cloud Computing and Big Data in 2014</li> <li>● Conducted Anna University Sponsored FDTP-GE8151-Problem Solving and Python Programming in 2018</li> <li>● Conducted AICTE Sponsored FDP on Data Science and Exploratory Data Analysis With R and Python in 2019</li> <li>● Conducted Five Days FDP on Open Source Tools for Data Analytics in 2021</li> <li>● Conducted a National Conference on Smart Innovations in Communications and Computing (NCSICC'19)</li> <li>● Organised many events in Game Development Club</li> </ul>
<b>General</b>	<ul style="list-style-type: none"> <li>● Acted as Time Table Coordinator</li> <li>● Acted as Symposium Coordinator</li> <li>● Acted as Co-Convenor for International Conference on Computational Science ICCST'17 for CSE department</li> <li>● NBA Department Coordinator</li> <li>● Naan Mudhalvan Department Coordinator.</li> <li>● Acting as BOS member</li> <li>● PAC Coordinator</li> <li>● Department MSME Coordinator</li> <li>● Acting as Chief Mentor for the Department</li> <li>● Acting as NIRF Coordinator for the Department</li> <li>● Team Mentor for Chattra Vishwakarma Award –Participated upto Regional Level</li> <li>● SCOPE(Executor) member in department level</li> <li>● SCOPE(Organiser) member for Game Development Club</li> <li>● SCOPE(Executor) member for MSME</li> <li>● R&amp;D Innovator- Research collaboration</li> <li>● Project Coordinator</li> <li>● Mini Project Coordinator</li> </ul>

#### PROFESSIONAL EXPERIENCE:

Sl. No	College / Organization	Designation	Period	
			From	To
1	Sri Sairam Polytechnic	Lecturer	01.7.2000	22.5.2002
2	Sri Sairam Engineering College	Lecturer	10.6.2002	30.6.2007
3	Sri Sairam Engineering College	Senior Lecturer	1.7.2007	31.7.2011
4	Sri Sairam Engineering College	Associate Professor	1.8.2011	31.12.2024
5	Sri Sairam Engineering College	Professor	1.1.2025	Till Date

## BOOK CHAPTER PUBLISHED

- Published a Chapter titled , **"EMPLOYEE TURNOVER PREDICTION USING SINGLE VOTING MODEL**, in Applied Learning Algorithms for Intelligent IoT, CRC Press, Taylor and Francis group. ISBN: 978-1-003-11983-8 (ebk) DOI: 10.1201/9781003119838.(Scopus Indexed)
- Published a Chapter titled **"Consistent Application of Capacitive Touch Infrastructure in Wireless Reloadable Sensor Networks"**, Dipti Press(OPC) Pvt. Ltd, ISBN:978-81-952585-3-6.
- Published a Book Chapter, **"Hybrid Cloud Computing"**, in **Emerging Technologies in Engineering Research, Technical research Publications**.ISBN:978-93-5419-211-1 (Online), December 2020
- Published a Book Chapter, **"Innovative System Using remote Sensor Interface for Commercial Transport of Goods"** ISBN: 978-93-94639-07-2.
- Published a Book Chapter, **"Forging an ethical paradigm with moral integrity in the realm of crypto currency investment"** EISBN13: 9798369341605,DOI:10.4018/979-8-3693-4159-9.ch027
- Published a Book Chapter , **"A smart anomaly detection method in cyber physical systems using machine learning"** EISBN13: 9798369341605, Publisher:IGI Global, DOI: 10.4018/979-8-3693-4159-9.ch021,2024 (Scopus Indexed)
- Published a Book Chapter, **"Secure data transmission in the WSN sector utilizing a heuristic multi-level clustering mechanism with dynamic trust computation"** EISBN13: 9798369341605, Publisher:IGI Global,DOI: 10.4018/979-8-3693-4159-9.ch015.2024 (Scopus Indexed)
- Published a Book Chapter, **"Secure data transmission in the wsn sector utilizing a heuristic multi-level clustering mechanism with dynamic trust computation"** EISBN13: 9798369341605,Publisher:IGI Global, DOI: 10.4018/979-8-3693-4159-9.ch015.2024 (Scopus Indexed)
- Published a Book Chapter, **"An adaptive cryptography using OpenAI API: Dynamic key management using self learning AI"** , EISBN13: 9798369341605,Publisher:IGI Global, DOI: 10.4018/979-8-3693-1642-9.ch004.2024 (Scopus Indexed)

## BOOK PUBLISHED

- Published a Book "Programming in Java", ISBN 978-93-90548-36-1,Publisher Book Rivers
- Published a Book "Operating Systems", ISBN :9798390316788
- Published a Book "Data Warehousing and Data Mining", ISBN :9798390316290
- Published a Book "Artificial Intelligence" ISBN 9798361887200
- Published a Book "Essentials of Data Structures and Algorithms ", ISBN :9789368848653, Publisher Book Rivers

## **PATENT DETAILS**

- Filed a Patent "Micro Lecture Learning System using Speech Recognition and Machine Learning" Appln No:202141038679,Published Date:26/8/21
- Filed a Patent "Embedded Wireless Sensor Based Sleep Monitoring System" Appln No:202141012136.Published Date:26.3.21
- Filed a Patent "IoT Based Energy Management System in Microgrid Using LORAWAN" Appln No:202141049030,Published Date:26/11/21

## **DC MEMBER**

- Acting as Doctoral Committee Member for the Research Scholar SARANIYA M(RegisterNo.PA2133013013008)at SRM Institute of Science and Technology, Vadapalani

## **REVIEWER DETAILS**

- The Journal of Supercomputing.
- Computer Communications
- Journal of Medical Systems
- Measurement: Sensors
- TPC Member during the International Conference on “International Conference On Computational Intelligence in Data Science 18 – 20 March 2021organized by the Department of Computer Science and Engineering at SSN College of Engineering

## **AWARD DETAILS**

- Excellence for Women in Academics Award – International Journal of MC Square Scientific Research (2021)
- Best Paper Award – ICON’22 Conference (2022)
- Best Book/Book Chapter Award – Teachers’ Day (2022, Sri Sairam Engineering College)
- Received NPTEL DISCIPLINE STAR Award
- Received Appreciation certificate for mentee skillrack performance organized by Skill Development Club of Sri Sairam Engineering College.

## **FUNDING RECEIVED**

- ₹9,00,000 – Faculty Mentor, MSME Idea Hackathon 3.0 (Women Innovators,2024)
- \$1000 – IEEE Pre-University STEM Portal Grant (Mobile App Development, 2023)
- ₹7,500 – Faculty Mentor-TNSCST Project (BCI Auxilior for Hearing & Speech Impaired,2020)
- Rs.10000-Faculty Mentor -Niral Thiruvizha 2.0

## **OUTSIDE WORLD INTERACTION**

- Session Chair & Reviewer for the Second International Conference on Smart Innovations in Communications and Computing(NCSICC-2021) at Sri Sairam Engineering College ,held on 24<sup>th</sup> March 2021
- Session Chair for “2nd International Conference on Advanced Computing and Communication Technology”, Jointly organized by Francis Xavier Engineering College & IFERP,19th & 20 th May 2022
- Session Chair for “2nd International Conference on Research Trends in Engineering & Management (ICRTEM-2022)” Organized by R R Institute of Technology, Bengaluru, India held on 25th & 26th August 2022.
- Acted as resource person in AICTE Sponsored FDP on Data Science and Exploratory Data Analysis With R and Python in 2019
- Acted as Resource person in a Seminar cum Hands-on-Training on Exploratory Data Analysis using Python in Agni College of Technology on 9/3/23
- Interview Panel Member for Sri Sairam polytechnic in CSE Department
- Acted as Scrutiny member for Sri Venkateshwara College of Engineering,Sriperumbadur.
- Acted as Question paper setter for many Autonomous Colleges

## **WORKSHOP/FDP:**

- Training on Quality Management System and Audit Training during May 2003
- Technical enhancement Training on LINUX Administration during June 2003
- Attended Faculty Development Programme In Neural Networks Conducted In M.I.T campus during November 2004.
- International Conference INCON-CCC conducted by SSEC between 20th and 22nd August 2004
- One day Workshop on current Trends in Network Security , conducted by Sri Sai Ram Engineering College ,during July 2004
- Two-day workshop on .Net & C#” conducted by Computer science Engg Department Sri Sai Ram Engineering College in association with Computer Society of India, Chennai Chapter on 17th and 18th December 2004.
- Two Day Workshop on software Engineering and Object technology’ conducted by SSEC,Chennai on 23rd December 2004.
- National Conference on Distributed Systems and Knowledge Engg. Conducted by IT and MCA , Sri Sai Ram Engineering College on 16th and 17th september 2005
- One day Workshop on Networks & Security Conducted by Department of Electronics and Communication Engineering and BENCH MARK on 22nd September 2006
- Attended Staff development programme on Information Technology in Telemedecine and E-Health conducted by Department of Computer science and Engineering in association with Tata Consultancy Services from 9th to 21st July 2007.
- Attended Staff development programme on Web Services and its application conducted by Department of Computer Science and Engineering during May 2008.

Attended two days workshop on “NS2, Glomosim Network Simulators conducted by Department of Computer Science and Engineering ,B.S.Abdur Rahman University during August 2010

- Attended National seminar on “Research methodologies in Next Generation Wireless Network using OPNET” by Department of Information Technology during August 2010
- Attended two days workshop on Next Generation Wireless Networks conducted by Department of Information Technology during March 2011
- Attended CSIR sponsored two days seminar on Recent trends in SOA conducted by Department of Information Technology during Jan 2012
- Attended Workshop on Art of Journal and Thesis writing conducted by Department of Mechanical Engineering during Jan 2012
- Attended Workshop on Elastic Technologies of Cloud Computing” Conducted By Department of CSE “,SRM University on August 20th to 22nd 2013.
- Attended a seminar on” AICTE sponsored seminar on Cloud computing and Mining conducted by Department of MCA, Sri Sai Ram Engineering College, on September 26th and September 27th 2013.
- Attended a Workshop on” Cloud Computing Architecture, Approaches and Applications conducted by CEG,Guindy on March 28th 2014.
  - Attended a FDP on ” Cloud Computing “ conducted by Department of IT And TCS at Sri Sai Ram Engineering College, on May 5th 2014.
  - Attended a FDP on” Software Testing” at TCS.on Nov 11th 2014.
  - Attended a FDP on “ Cloud computing and Big Data” Conducted by the Department of CSE,Sri Sai Ram Engineering College on December 8th and December 9th 2014.
  - Attended a FDP on “ Grid and Cloud Computing” conducted Conducted by the Department of CSE,Sri Sai Ram Engineering College on August 8th and 9th 2016.
  - Attended a 7 days FDTP on “Grid and Cloud Computing” at Sri Sairam Institute of Technology from 8 th to 16 th June 2017.
- Attended a National Level Workshop on Hands on Training on Machine Learning Algorithms Using Python Organized by SRM institute of Science & Technology, Dept of Software Engineering,Kattankulathur,kpm22/02/2018 &23/02/2018
- Attended one day FDP in "IOT-Business 4.0 & Blockchain Technology" Conducted by TCS on 27.10.2018
- Attended a 2 days FDP on “Introduction to Python Programming” conducted by ICT Academy on 11.3.2019 and 12.3.2019 at Womens Christian College,Chennai.
- Participated in the Online AICTE Recognized Faculty Development Programme on Cloud, Fog and Edge Computing from 14-04-20 to 18-04-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Neural Network and CNN from 20-04-20 to 24-04-20 (One Week) Organized by Curriculum Development Centre Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Data Science using R from 11-05-20 to 15-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Big Data Analytics from 18-05-20 to 22-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh

- Participated in the Online AICTE Recognized Faculty Development Programme on Data Analytics using Python from 18-05-20 to 22-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Cyber Security from 08/06/2020 to 19/06/2020 (Two Weeks) Organized by Computer Science and Engineering Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Skill Enhancement using Free & Open Software Tools from 15/06/2020 to 19/06/2020 (One Week) Organized by Curriculum Development Centre Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Programming using MATLAB from 08/06/2020 to 12/06/2020 (One Week) Organized by Electrical Engineering Department NITTTR, Chandigarh.
- Participated in the Online AICTE Recognized Faculty Development Programme on Artificial Neural Networks and Fuzzy Logic from 22/06/2020 to 26/06/2020 (One Week) Organized by Electrical Engineering Department NITTTR, Chandigarh
- Participated in the Online AICTE Recognized Faculty Development Programme on Free Tools for Research and Publications from 27/07/2020 to 31/07/2020 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh
- Participated in the ATAL Academy Online FDP on "Artificial Intelligence" from 25/05/20 to 29/05/20 at NITTTR Chandigarh.
- Participated in the ATAL Academy Online FDP on "Blended Learning and Flipped Classroom" from 07/09/20 to 11/09/20 at National Institute of Technical Teachers Training and Research, Chandigarh
- Participated in the ATAL Academy Online FDP on "Artificial Intelligence" from 01/10/20 to 05/10/20 at Indian Institute of Technology Ropar.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on "The Impact of Quantum Computing on Cryptography and Blockchain Technology" from 13/09/2021 to 17/09/2021 at GITAM School of Science.
- Participated in AICTE Training And Learning (ATAL) Academy Online FDP on on "Women Entrepreneurship: Opportunities from Ideation to Implementation" from 25/10/2021 to 29/10/2021 at Entrepreneurship Development Institute of India.
- Participated in the Online AICTE Recognized FDP on "Bio-Inspired Optimization Techniques" from 17/01/2022 to 21/01/2022 (one Week) at NITTTR Chandigarh.
- Participated in the Online AICTE Recognized FDP on Internet of Things from 07/02/2022 to 11/02/2022 (one Week) at NITTTR Chandigarh.
- Participated in the Online FDP on Transforming in Medical Research with Next – Gen AI : Machine Learning & Deep Learning in Action, Sponsored by Ministry of Electronics and Information Technology (MeitY), Government of India, organized by E & ICT Academy, NIT Warangal, in association with ANITS Visakhapatnam from 16th June – 26th June, 2025.

#### **Papers published in the SCI/WOS/Scopus**

1. Published a paper titled, 'A Novel Hierarchical Scheduling Method for Managing Parallel Workloads in Cloud in 'Global Journal of Pure and Applied Mathematics',ISSN

0973-1768 Volume 12, Number 2 (2016), pp. 1647-1662( **SCOPUS INDEXED JOURNAL** )

2. Published a paper titled ,'Job Migration for Saving Optimizing in Cloud Data Center (IaaS)', **International Journal of Control Theory and Appl** ,Vol.9,No.5 (2016) , 2016,ISSN:0974-5572 pp. 2843-2849( **SCOPUS INDEXED JOURNAL** )
3. Published a paper titled, Ranging and tuning based particle swarm optimization with bat algorithm for task scheduling in cloud computing **Cluster Computing The Journal of Networks, Software Tools and Applications** <https://doi.org/10.1007/s10586-017-1534-8>,Published on :28 December 2017 Impact Factor:2.040(SCI/Web Of Science/Scopus Indexed)
4. Published a paper titled,“A comprehensive survey on parallel workloads Using Particle Swarm Optimisation In Cloud Environment” Second International Conference on Computing and Communications Technologies - ICCCT'17 which will be held on 23/02/17 & 24/02/17 @ Dept of IT, Sri Sairam Engineering College. DOI: [10.1109/ICCCT2.2017.7972253](https://doi.org/10.1109/ICCCT2.2017.7972253)(Scopus Indexed)
5. Published a Paper Titled ,”Intelligent Crash Detection and Emergency communication system for Two Wheelers”, International Conference on Communication, Computing and Internet of Things (IC3IoT), Feb 2018, DOI: [10.1109/IC3IoT.2018.8668180](https://doi.org/10.1109/IC3IoT.2018.8668180) (Scopus-Indexed).
6. Rayasam Lakshmi Satya, R. B. Divya ,**R. Valarmathi**, ”Analysis of sentiment in twitter using logistic regression” International Journal of Engineering and Technology-7 (2.33) (2018) 619-621 DOI:[10.14419/ijet.v7i2.33.14849](https://doi.org/10.14419/ijet.v7i2.33.14849)(Scopus-Indexed).
7. R.Uma, **R.Valarmathi** ,B.Latha,” Query Expansion For Medical Domain To Augment The Web Search”, International Journal of Engineering and Advanced Technology (IJEAT),”, Volume 9,Issue 1,pp. 5284-5287,2019(Scopus-Indexed).
8. **R Valarmathi**, T Sheela,”RFM-PSO -RFM Score based PSO Task Scheduling in Cloud”, International Journal of Innovative Technology and Exploring Engineering (IJITEE),Volume 8,Issue 6S,pp.25-29.April 2019. (Scopus-Indexed).
9. **R Valarmathi**, T Sheela, ”Differed service broker scheduling for data centres in cloud environment”, Computer Communications 146, pp.186-191,Oct 2019.(SCI/Web of Science/Scopus-Indexed)
10. Published a paper Titled,“ **PD Pattern Recognition on Transmission Lines using Tree-Based Models**”, IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS),December 2020(Scopus-Indexed).
11. Published a paper Titled,“ **Real Time Path Planning using Intelligent Transportation System for Hybrid VANET**”, IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS),December 2020. (Scopus-Indexed).
12. Published a Paper Titled,“ **Artificial Neural Network for Rainfall Analysis Using Deep Learning Techniques**”, Journal of Physics: Conference Series 1964 (4), 042022, July 2021. (Scopus-Indexed).
13. Published a Paper Titled,“ **Network Simulation Software Architecture of Blockchain: A Model-Led Viewpoint**”, Journal of Physics: Conference Series 1964 (7), 072011, July 2021. (Scopus-Indexed).
14. Published a Paper Titled,“ **Heart disease prediction using hyper parameter optimization (HPO) tuning**”, Biomedical Signal Processing and Control 70, 103033,September 2021.(SCI/Web of Science/Scopus-Indexed)

15. Ramkumar, P., Anitha Ruth, J., Uma, **R., Valarmathi, R., Venkatesh, D.**, "Detection of Disease of Tomato Plant Based on Convolution Neural Network", **Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 262–266**
16. R Uma, P Ramkumar, JA Ruth, **R Valarmathi**, "Genome-wide autism prediction", AIP Conference Proceedings 2464 (1), 060008, May 2022 (**Scopus-Indexed**)
17. D Venkatesh, **R Valarmathi**, R Uma, "An LSTM-based approach for predicting idiopathic pulmonary fibrosis progression", AIP Conference Proceedings 2464 (1), 060009, May 2022 (**Scopus-Indexed**)
18. B Humrutha, K Latha, **R Valarmathi**, R Uma, "Smart Break-in-Prevention System With Face Recognition", 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), March 2022 (**Scopus-Indexed**)
19. R Uma, A Devi, A Imayavathi, **R Valarmathi**, "Meticulous Deep Learning Evolved Drowse Orchestrate Emotionless Community sleep Apnea", 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), March 2022 (**Scopus-Indexed**)
20. S Sangeetha, R Uma, **R Valarmathi**, "Dyslexia Biomarker Detection Using Machine Learning", 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), March 2022 (**Scopus-Indexed**)
21. **R Valarmathi**, R Uma, C Brinda, R Vashika, "Facial Detection Attendance System using LBPH and KNN", 2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), March 2022 (**Scopus-Indexed**)
22. R Uma, P Ramkumar, JA Ruth, **R Valarmathi**, "**Genome-wide autism prediction**", AIP Conference Proceedings 2464 (1), 060008, 2022 (**Scopus-Indexed**)
23. D Venkatesh, **R Valarmathi**, R Uma, "**An LSTM-based approach for predicting idiopathic pulmonary fibrosis progression**", AIP Conference Proceedings 2464 (1), 060009, 2022 (**Scopus-Indexed**)
24. **Valarmathi, R.**, Brindha, G., Nandakumar, S.D., Juliet, P.S., "Design and development of driver's driving pattern analysis for automatic license issuing system", AIP Conference Proceedings, 2022, 2519, 030021 (**Scopus-Indexed**)
25. Karthikeyan, P., Paul Nishanth, R., **Valarmathi, R.**, "Crop Field Protection from Animals Using Convolutional Neural Networks", 2022 1st International Conference on Computational Science and Technology, ICCST 2022 - Proceedings, 2022, pp. 255–257 (**Scopus-Indexed**)
26. Uma, R., Ramkumar, P., Anitha Ruth, J., Valarmathi, R., Devi, M.S., "Prediction of Lung Cancer using Data Mining Techniques," 3rd International Conference on Smart Electronics and Communication, ICOSEC 2022 - Proceedings, 2022, pp. 975–977 (**Scopus-Indexed**)
27. Published a paper, "ATM Fraud Detection Using Human Activity Recognition", 2022 1st International Conference on Computational Science and Technology, ICCST 2022 - Proceedings, 2022, pp. 255–257 (**Scopus-Indexed**)
28. Juliet, P.S., Raman, A., **Valarmathi, R.**, Brindha, G., "Dynamic Transmit Awake Feature based Forwarder Election in Mobile WSN", Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023, 2023, pp. 624–628 (**Scopus-Indexed**)
29. Published a Paper "**IoT Based Anti-Theft Detection System**", Intelligent Computing

- and Control for Engineering and Business Systems, ICCEBS 2023. **(Scopus-Indexed)**
30. Published a Paper ,”**Animated Sign Language For People With Speaking And Hearing Disability Using Deep Learning**”, International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 - Proceedings, 2024 **(Scopus-Indexed)**
  31. Published a Paper ,”**Enhancing Mental Well-being through AI-Driven Virtual Environments: The Merrytopia Project** ”, International Conference on Communication, Computing and Internet of Things, IC3IoT 2024 - Proceedings, 2024 **(Scopus-Indexed)**
  32. Published a Paper ,”**Intelligent Illumination-A Machine Learning Enhanced Street Light** ”, 2025 International Conference on Computing and Communication Technologies ICCCT 2025, **(Scopus-Indexed)**

### **Papers published in UGC Journal**

1. **Valarmathi R** , Suresh Anand M, Venkatesh T, Jayaprakash S,” **Sign-Vein Authentication System For The Speech And Hearing Impaired Using CNN**”, Journal of Emerging Technologies and Innovative Research,Volume 6,Issue 5,pp.215-218,May 2019**(UGC Journal)**
2. Rayasam Lakshmi Satya, Divya R B, Gajapriya L, **Valarmathi. R**, Rohit Krishnan.S,” **Frenzied Handler**”, International Journal of Research and Analytical Reviews (IJRAR), Volume 6,Issue 3,pp.65-69,July 2019**(UGC Journal)**
3. **Valarmathi R** , Nivetha A , Pooja V , Pratheebha N , Kaushik V, ”**Digital Certificate Substantiator**”, Studies in Indian Place Names, Vol 40 issue 3 (s1) February 2020**(UGC Journal)**.
4. Published a Paper Titled," SMART SHOPPING SYSTEM USING AUGMENTED REALITY AND GAZE TRACKING",Journal of the Gujarat Research Socieity, ISSN: 0374-8588,Volume 21 Issue 17, December 2019, **(UGC Journal)**.

### **Papers published in National Journal / Inter National Journal**

1. Published a paper titled “**Content extraction after eliminating noisy information in web pages with web crawler**” in the SSEC Tech Journal, ISSN: 0975-2846, Vol.9,pp.100-113,2011.
2. Published a paper titled ,“**Biometric Skeletonized Signature Authentication Using Thermal Images**”, International Journal of Mechanical and Production Engineering”, ISSN:2320-2092 Volume-1,Issue-5,Nov 2013, DOI Number - IJMPE-IRAJ-DOI-392
3. N.Arvind, S.Siddharth Seshadri, **R.Valarmathi**, R.Uma, “**Agent-based handling of parallel jobs in cloud**”, Australian Journal of Basic and Applied Sciences, 11(13) October 2017, Pages: 117-123
4. M.Padmapriya, P.Jayaselvi, **R.Valarmathi**, “**A Cooperative Dual message Authentication and Group key Management in VANET**”,International journal of pure and Applied Mathematics, Volume 118 No. 18 2018, 3721-3728 ,Feb 2018
5. Akshay Kumar K, Praveen Sundaram N, R.Valarmathi,” **Determining the Cyber Security Risks and Mitigation of those Vulnerabilities of Traffic Light Systems**”, International Journal of Advances in Electronics and Computer Science (IJAECs)-IJAECs,Volume

6, Issue 1, pp 58-61, April 2019.

6. **R. Valarmathi** and T. Sheela , ” **Application of Particle Swarm Optimisation-R Factor Optimisation Algorithm for Efficient Resource Allocation and Scheduling in Cloud Environment**" J. Comput. Theor. Nanosci. Volume 17, Number 4, April 2020, pp. 1990-1998(9) .**Publisher:** American Scientific Publishers **DOI:** <https://doi.org/10.1166/jctn.2020.8478>
7. P.Ramkumar, R.Uma, **R.Valarmathi** , “**Smart Water Irrigation System using IoT**”, Journal of Contemporary Issues in Business and Government 27 (3), 1826-1833, April 2021
8. Lakshmi Satya Rayasam ,Divya R.B, Gajapriya L ,**R Valarmathi**, R.Uma, "**Flood Susceptibility Prediction using LSTM Algorithm**, " Journal of Contemporary Issues in Business and Government 27 (3), 1957-1963, April 2021

### Papers Presented in the National/International Conferences

1. Presented a Paper titled “Content Extraction after Eliminating Noisy Information in Web Pages with Web Crawler “in National Conference on Data mining and Distributed Applications conducted by Sathyabama University” held on September 2011
2. Published a paper titled, “Detecting and filtering false injected data in wireless sensor networks”, National Conference on Emerging issues in computer applications for modernization in IT, conducted by KSR college of engineering, Tiruchengode held on 16/02/2013
3. Published a paper titled “Biometric Skeletonized Signature Authentication Using Thermal Images”, Proceedings of IRAJ International Conference, 20th October 2013, Chennai, India. ISBN: 978-93-82702-34-4
4. Published a paper titled “Maximizing Profit of Cloud Provider and Resource Allocation in Hybrid IaaS Clouds”, Proceedings of International Conference on Advancements in Computing and Communication Technologies(ICACCT’15)
5. Published a paper titled, ‘Job Allocation Of Saving Energy For CPU utilization In Cloud Data Center (IaaS)’, Proceedings on 4<sup>th</sup> National Conference on Innovation in Computing and Communication Technology”, Kongunadu College of Engineering and Technology”
6. Presented a paper titled “JOB MIGRATION FOR SAVING OPTIMIZING IN CLOUD DATA CENTER (IaaS)” on International Conference on Futuristic Engineering , Science and Technology", (ICFEST 2016) in Agni College of Technology on 6<sup>th</sup> and 7<sup>th</sup> May 2016.
7. R.Valarmathi, Dr.T.Sheela ,“A Comprehensive survey on parallel workloads Using Particle Swarm Optimization In Cloud Environment” Second International Conference on Computing and Communications Technologies - ICCCT’17 which will be held on 23/02/17 & 24/02/17 @ Dept of IT, Sri Sairam Engineering College. DOI: [10.1109/ICCCT2.2017.7972253](https://doi.org/10.1109/ICCCT2.2017.7972253)(**Scopus Indexed**)
8. P. Jaya Surya, R.Valarmathi ,”Ant Colony Optimization Based Coalition Formation For Resource Allocation In IaaS Environment”, International conference on Computational Science and Technology ,Conducted by Sri Sairam Engineering College on 9-3-17 and 10-3-17

9. R.Valarmathi ,S.Sangeetha, G.Karuthammal, “Load Balancing Approach for Scheduling Task using QPSO”, Proceedings of 8th National Conference on Recent Issues in Network Galaxy RING’17 4<sup>th</sup> April 2017 conducted by R.M.D Engineering College
10. P. Jaya Surya ,R.Valarmathi ,”Ant Colony Optimization Based Coalition Formation For Resource Allocation In IaaS Environment”, Proceedings of 8th National Conference on Recent Issues in Network Galaxy RING’17 4<sup>th</sup> April 2017 conducted by R.M.D Engineering College
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28. **R Valarmathi**, R Uma, C Brinda, R Vashika,”Facial Detection Attendance System using LBPH and KNN”,2022 International Conference on Communication, Computing and Internet of Things (IC3IoT), March 2022)

## **NITTT**

- Completed Online Orientation Training Programme for Mentors organized from 5th to 9th July 2021 under National Initiative for Technical Teachers Training.

## **NPTEL Certificates**

- Programming, Data Structures Algorithms in C – Top 5%.
- Introduction to Internet of Things(Elite+Silver)
- Completed NPTEL “**DATA SCIENCE**” Domain Certification in 2024.
- Natural Language Processing
- Deep Learning(Elite+Silver)
- Introduction to Machine Learning(Elite+Silver)
- Data Analytics with Python(Elite+Silver)
- Python For Data Science(Elite+Silver)
- Learning Analytics Tools(Elite+Silver)