

# RESUME



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**Professional Experience: 25 Years**

## Objective

Dedicated and accomplished professor with over 25 years of experience in Computer Science Engineering Field and Pursuing a faculty role to apply my skills in teaching, research, and student mentorship.

- **To Become Best in Teaching Professional**
- **To Establish Research and Development in Working Organization**
- **To Raising Funding Project in Working Organization**
- **To Motivate the Budding Professional in Innovative Thinking**

## Education

**D.Sc in Computer Science**

*Manipur International University, Manipur, India, 2024*

**Ph.D. in Computer Science,**

*Anna University, Chennai, Tamil Nadu 2016*

**Master of Engineering in Computer Science and Engineering**

*Arulmigu Meenakshi Amman College of Engineering , Anna University ,  
Tamil Nadu , 2004*

**Bachelor of Engineering**

*Arulmigu Meenakshi Amman College of Engineering , Anna University , Tamil Nadu , 2004*

## **Professional Experience**

### **Panimalar Engineering College**

*Professor / CSBS / From 1.04.2025 to till Date*

### **Panimalar Institute of Technology**

*Professor / HOD- CSBS / From 1.03.2022 to 31-03-2025*

### **Panimalar Institute of Technology**

*Professor/CSE/ 4.05.2016 to 28-02-2022*

### **Sri Lakshmi Ammaal Engineering college**

*Associate Professor/ CSE / 1.7.2013 to 16.04.2016*

### **Balaji Institute of Engineering and Technology**

*Associate Professor/ CSE /1.6.2012 to 30.6.2013*

### **K.C.G.College of Technology**

*Associate Professor/ CSE / From 13-06-2008 to 27.5.2011*

### **Tagore Engineering College**

*Senior Assistant Professor/ CSE / 13-06-2008 to 27.5.2011*

### **Shri Andal Alagar College of Engineering**

*Assistant Professor / IT/ From 1.07. 2005 to 30.05.2008*

### **Arulmigu Meenakshi Amman College of Engineering**

*Lecturer/ CSE / From 2000 to 31.05.2005*

## **Journal Publications**

**Scopus - <https://www.scopus.com/authid/detail.uri?authorId=57210077349>**

- [1] S. Hemalatha 1, K. V. S. V. Trinadh Reddy , Ramaswamy T. , R. V. V. Krishna, P.Supriya, and S. N. Ananthi “ Enhancing MANET Security Using AI-Driven Intrusion Detection Systems “ Journal of Communications, vol. 20, no. 4, 2025 , doi:10.12720/jcm.20.4.371-383
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- [4] S. HEMALATHA, S. SHALINI, PULLELA SVVSR KUMAR, RACHAKONDA SRINIVAS, T. THILAGA, DR. VIJAYA KUMBHAR “ A HYBRID APPROACH FOR INTRUSION DETECTION AND PREVENTION IN MOBILE AD HOC NETWORKS “Journal of Theoretical and Applied Information Technology 15th February 2025. Vol.103. No.3, ISSN: 1992-8645
- [5] S. Hemalatha, Kiran Mayee Adavala, S.N. Chandra Shekhar, Pullela SVVSR Kumar, A.R. Venkataramanan, D. Naga Malleswari “A Comparative Analysis of Deep Learning Models in Diverse AI Healthcare Applications “ SSRG International Journal of Electronics and Communication Engineering ISSN: 2348-8549/ <https://doi.org/10.14445/23488549/IJECE-V12I3P111> Original Article Volume 12 Issue 3, 116-124, March 2025 © 2025 Seventh Sense Research Group®
- [6] Hemalatha Senthilmahesh , Muthuvairavan Pillai Nagappan , Somavarapu N. C. Shekhar , Anbarasa A. Pandian , Pullela S. V. V. S. R. Kumar , Ramesh Tumaati “Advancing oncology care with AI-powered virtual assistants and chatbots: A qualitative exploration of future potential and challenges “ Eurasian Journal of Medicine and Oncology, ISSN: 2587-196X, Vol: 9, Issue: 1, Page: 115-132 EJMO 2025, 9(1), 115–132; <https://doi.org/10.36922/ejmo.6251>
- [7] S. Hemalatha , K. V. S. V. Trinadh Reddy , Tavanam Venkata Rao , T. Ramaswamy , N. Muthuvairavan Pillai, G. Krishna Mohan Advancing Autonomous Systems: A Review of Emerging Trends in Robotics Journal Européen des Systèmes Automatisés Vol. 58, No. 5, May, 2025, pp. 913-921 . <https://doi.org/10.18280/jesa.580505>.
- [8] S. HEMALATHA, DR.P.ARIVUBRAKAN ,PONNURU ANUSHA, SURYA LAKSHMI KANTHAM VINTI ,JYOTI D. SHENDAGE, PRAMODKUMAR H KULKARNI “DEEP LEARNING APPROACHES FOR THE DEVELOPMENT OF INSECT- AND MOULD-RESISTANT PAINTS: AI-DRIVEN FORMULATION AND OPTIMIZATION” Journal of Theoretical and Applied Information Technology N: 1992-8645 31st May 2025. Vol.103. No.10.
- [9] S. HEMALATHA, V. SEETHALAKASHMI , PULLELA SVVSR KUMAR, TAVANAM VENKATA RAO , DR.G. ANUREKHA , MS. B YAMINI SUPRIYA “SIGNAL PROCESSING IN MANET SMART ANTENNAS “Journal of Theoretical and Applied Information Technology ISSN: 1992-8645 , 30th June 2025. Vol.103. No.12
- [10] “Hemalatha S., Komala C.R., Adavala K.M., Faizz Ahmad K.S., Krishna R.V.V., Deepa B., Mohan A., Mothukuri R. ENHANCED ROUTING PROTOCOL IN MOBILE AD HOC NETWORK FOR IMPROVING THE PERFORMANCE (2024) Journal of Theoretical and Applied Information Technology, 102 (14), pp. 5386 - 5395
- [11] Hemalatha S., Gayathri G.N., Thilagam T., Rawat S., Krishna R.V.V., Kulkarni P.H., Mohan A., Mothukuri R. IMPROVING QUALITY OF SERVICE IN MOBILE ADHOC NETWORK BY DOING MISSING PACKET COLLECTION DUE TO BUFFER OVERFLOW WITH DIVIDE AND CONQUER STRATEGY (2024) Journal of Theoretical and Applied Information Technology, 102 (14), pp. 5651 - 5662
- [12] Hemalatha S., Ahmad K.S.F., Tavanam V.R.A.O., Krishna R.V.V., Sathya U., Pillai N.M. BEACON SIGNAL AND SLEEP AND AWAKE STRATEGY IN MANET FOR POWER ENHANCEMENT (2024) Journal of Theoretical and Applied Information Technology, 102 (21), pp. 7706 - 7716
- [13] Hemalatha S., Shalini S., Sathya U., Kumaravel P., Krishna S.V., Kulkarni P.H. AI BASED CLUSTER HEAD BASED MOBILE ADHOC NETWORK FOR PERFORMANCE IMPROVEMENT

- (2024) Journal of Theoretical and Applied Information Technology, 102 (23), pp. 8818 - 8826
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- [16] Hemalatha S., Adavala K.M., Chandra Shekhar S.N., Kumar P.S., Venkataramanan A.R., Naga Malleswari D. PROPOSAL OF ENHANCING WATER SAFETY- AN AUTONOMOUS ROBOT FOR DROWNING PREVENTION (2024) Journal of Theoretical and Applied Information Technology, 102 (24), pp. 8954 – 8962
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- [19] Hemalatha S., Trupthi M., Vaneeta M., Narayan Das N., Krishna R.V.V., Thangakrishnan M.S., Londhe G.D., Anusha P.COMPARING WATCH DOG ALGORITHM AND CLASSIFICATION TECHNIQUES WITH MACHINE LEARNING TECHNIQUE TO DETECT THE VARIOUS ATTACKERS IN MOBILE ADHOC NETWORK (2024) Journal of Theoretical and Applied Information Technology, 102 (14), pp. 5469 – 5481.
- [20] Hemalatha S., Sethi R., Rajasekaran M., Kumar R.A., Vimala M., Velmurugan V., Razia S., Deepa J. NOVEL ROUTING PROTOCOL TO OVERCOME PACKET DELAY IN MOBILE ADHOC NETWORK (2024) Journal of Theoretical and Applied Information Technology, 102 (9), pp. 3817 – 3826
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- pages <https://doi.org/10.1155/2022/4055491>.
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Automatic Vehicle Detection and Tracking System with Video-Enabled UAV Networks Using Deep Convolutional Neural Network and IoT Surveillance “Journal of Healthcare Engineering Volume 2022, Article ID 2592365, 14 pages <https://doi.org/10.1155/2022/2592365>.

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### **National Conferences**

1. S.Hemalatha&P.C.Senthil Mahesh “ Smart card User Authentication Scheme” Cyber crime and security management , kongu engineering College, 2007.
2. S.Hemalatha&P.C.Senthil Mahesh “ Adhoc network data Communication Protocol “ Soft Computing and its applications at Anil Neerukonda Institute of Technology and Sciences 2007.
3. S.Hemalatha& P. C.Senthil Mahesh “Innovations and Information Technology “ Karpagam College of Engineering 2008.
4. S.Hemalatha& P. C. Senthil Mahesh “ New Improved Intrusion Detection system Framework for cloud computing networks through Back End Processor “ Sri Sai Ram Institute of Technology 2011.
5. S.Hemalatha& P. C. Senthil Mahesh “ Authentication Mobile call forwarding in Groups” S.A.Engineering College Chennai.
6. S.Hemalatha&Bharath“ Cloud Computing security “ Tagore Engineering College.
7. S.Hemalatha&Mageshwari“ QR code online examination “ Sri Sairam engineering College.
8. S.Hemalatha& P. C.Senthil Mahesh” Resource Optimization in Uninterrupted powersupply “ National Institute of Technology” Tiruchy.
9. J. Mithilaesh, Dr, V. Subedha,Dr.T. Kalaichelvi and Dr. S. Hemalatha “Driving style acknowledgment based permit issuance utilizing cell phone sensors and DTW calculation “Vel Tech , Chennai .
10. Dr.T.Kalaichelvi,Dr.S.Hemalatha,A.M. Lakshmi priya,AnushaGandhi,Divya “Escort System for Visually Impaired People” in National Conference on Emerging Challenges in Engineering and Technology 2017- NCECET 17 on 31st march

conducted in JeppiarMamallanEngineereing College .pp.-278-282.

11. Dr.S.Hemalatha and Dr.P.C.SenthilMahesh “ Trends in Machine Learning For Fully Automatted Home Appliances” National Conference on emerging Trends in Information,Digital & Embedded Systems “ NC’e-TIDES -19 on 13 & 14 March 2019.

***Patent Applied and Published***

<i>S.No</i>	<i>Patent No</i>	<i>Inventors</i>	<i>Patent Title</i>	<i>Status</i>
1	201941011699	1.Dr.S.HEMALATHA 2.DEEBIKAKUMAR. 3.NIDHARSANA. 4.PRIYANKA. K	NOVEL HERBAL METHOD TO CURE HUMAN DISEASE USING MOBILE APPLICATION DEVELOPMENT	<i>Granted</i>

2	387358-001	1.Dr. Preety Verma 2. Dr. Shaik Taj Mahaboob 3.Dr. S.Hemalatha 4.Dr. Ganesh M Agnihotri 5.Dr. Ihtiram Raza	ARTIFICIAL INTELLIGENCE BASED NERVE ACTIVATION DEVICE FOR HEALTHCARE TREATMENT	<i>Granted</i>
3	370426-001	1.Dr. S.Hemalatha 2. Dr. E. J. Thomson Fredrik 3.Suganya. J 4.Veeresh K M	IOT ENABLED MULTI-UTILITY SMART REMOTE	<i>Granted</i>
4	2021104034	Hemalatha, S. Nayak, Bhagirathi Joshi Ramakrishna Sachan, Smriti Srivastav K Er Aparna Kar, Tejaswini Sinha, Jenar Kumar; Saxena, Ankur; Saksena, Priyanka;	SMART HEALTHCARE SYSTEM FOR MONITORING AND CONTROL OF THE INDOOR ENVIRONMENT USING IOT TECHNOLOGY AND ARTIFICIAL INTELLIGENCE	<i>Granted</i>
5	2021104564	Hemalatha, S.; Mohanty, Dipak Kumar; Siddique, Mohammed Singh, Saubhagyalaxmi; Mahapatra, Sheila; Raj,	SMART FRAMEWORK FOR PROVIDING PRIVACY AND PROTECTION IN BLOCK CHAIN BASED PRIVATE TRANSACTIONS USING CLOUD COMPUTING APPROACH	<i>Granted</i>

6	2021103628	Hemalatha, S. Raj, Vivek; Raga, Sarika; Devadutta, Kumar; Sandeep; Vikram, Shweta; Kumar, Binod; Bhanu, B. Balaji; G., Pavithra; Manjunath, T. C.; Goel, Sachin; Mungara , Jitendranath and S., Muthukumar	SMART ORGANIC LED FARMING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE & MACHINE LEARNING MODEL	<i>Granted</i>
7	201841006236	DR.S.HEMALATHA HARITHA KANIMOZHI KAUYA KRISHNA KUMAR	THWART SHOULDER SNIFFING ATTACKERS IN AUTOMATIC TELLER MACHINE BY IMPLEMENTING RANDOM NUMBER DISPLAYING NUMBER	<i>Awaiting for examination</i>
8	201941011708	Dr.S.Hemalatha Indhumathi Arul Selvi	HANDY INTELLIGENT DEVICE TO ALERT AND ORDIT HOME BUDGET FOR PEOPLE TO MAINTAIN HOME NEEDY WITHOUT CREDIT	<i>Awaiting for examination</i>

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<i>S.NO</i>	<i>Reg No</i>		<i>Title</i>
	<i>1188171</i>	<i>Raj Kumar Hemalatha SHANA Ragavandra Sai chandra MAKAN MADHURA ANKUR</i>	<i>Secure Demand Side Management Using Machine Learning and Internet of Things</i>

## **Fund Granted**

<b>1.</b>	IEEE Maker EventFund	Dr.S.Hemalatha &Dr.T.Kalaichelvi	\$500USD	2016
<b>2</b>	Tamil Nadu State Council science andTechnology	Dr.S.Hemalatha & Dr.Kalaichelvi	Rs20000/-	2017

## **Book Publication** **Chapter**

1. Dr. S. Hemalatha, Dr. P. C. Senthil Mahesh “**RELIABLE AUTOMATIC TELLER MACHINE EVEN THE LOW PERFORMANCE SERVER** “ Publisher and Editor in Chief, Resrach Foundation of India (Registered under the government of india book publications act ) India ISBN – 978-93-89522-02-0 Copyrights 2019 .
2. Dr. S. Hemalatha, Vijetha Bhat and Dr.S.Chitra “ **CYBER SECURITY CHALLENGES AND ITS EMERGNING TRENDS ON LATEST TECHNOLOGIES** “ Recent Trends in Applied Sciences and Computing Engineering (RTASC) ISBN: 978-81-950236-3-9

3. Dr. S. Hemalatha, Ms. Simi Paxleal. J., Zareena Noorbasha “  
**INTERNET OF THINGS TO USE ARTIFICIAL INTELLIGENCE (AI) AND MACHINELEARNING (ML) “**  
Recent Trends in Applied Sciences and Computing Engineering  
(RTASC) ISBN: 978-81-950236-3-9
4. Dr. S.Hemalatha, “**APPLICATION OF DATA MINING IN EGOVERNANCE “ E- Governance – A comprehensive framework with case studies** ISBN: 978-81- 950236-7-7

### **Book Published**

1.“**Fundamentals of Computing “** in Charulatha Publication in the year 2013.

**Professional Member**

1. **ISTE LIFE MEMBER LM 120616**

2. **CSI**

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**CSI**

- **State Student Coordinator**
- **Regional Student Coordinator**

3. **INAE membership**

## **Computer Society of India**

1. State Student Coordinator – Academic year 2019-2020
2. Regional Student Coordinator - Academic year 2020-2021

## **CSI Article Published**

- CSI article published in “Cyber Forensics” as CSI Adhyayan at April – June 2016
- CSI article published in “Green Technology” as CSI Adhyayan at April – June 2016
- CSI article published in “Underwater Sensor Network(UWSN)”as CSI Adhyayanat April – June 2016
- CSI article published in “Surface Computing” as CSI Adhyayan at July-Sep 2016
- CSI article published in “Blue Eye technology” as CSI Adhyayan at July-Sep 2016
- CSI article published in “Manet - Mobile ad hoc network” as CSI Adhyayan at 2016.
- CSI article published in “Entertainment Robot “as CSI Adhyayanat July-Sep 2016.
- CSI article published in “How The Internet Is Destroying Our Brain “as CSI Adhyayanat 2016.
- CSI article published in “Nanotechnology : The Future Medicine” as CSI Adhyayan at 2016.
- CSI article published in “ The Rise Of The Dark Net “as CSI Adhyayan at 2016.

## **CSI Communication Publication**

- [1] *Dr.S.Hemalatha and Dr.Pr.C.SenthilMahesh Pseudo Code Attacks in Software Engineering , CSI Communication PP 18 -21 March 2017 .*
- [2] *Dr.S.Hemalatha , M.Archana , S.Haripriya , E.ShinyFreeda “Study on the Aiding Tools of for Effective Social Contact “ Nov 2018.*
- [3] *Dr.S.Hemalatha , M.Archana , S.Haripriya , E.ShinyFreeda “ Implementing Guster Vocalizer that enables full duplex coummincation between Deaf and dump with normal people 2018*

### **Awards Received**

1. **Received Best Teacher Award in Sri Lakshmi Ammaal College of Engineering**
2. **Best Paper Award in International ConferneceIcaer-2016**
3. **Distinguished Professor Award from Computer Society of India, 2017 .**
4. **IEEE Professor Award**
5. **CSI Dedicated Professor award Mumbai chapter**
6. **Faculty with maximum publishing in CSI Publications Award 2016-17**
7. **Paper Presenter Award at International Conference 2016-17**
8. **Distinguished Professor Award- 2016-17**
9. **Best Faculty - Specific Innovations - manifest in prototypes, patents etc., - 2017-18**
10. **VIWA Award “ Outstanding Women in Engineering -2018**
11. **INAE award 2018**
12. **Selected for "InSc Young Achiever Award 2019".**
13. **Selected for "InSc Best Teacher Award 2019"**
14. **Selected as” Bharath Excellence Award 2019 from Friends Forum**
15. **Selected as “ Best Faculty award 2019 from friends forum**
16. **Selected as “ best project award 2019 from INSC**
17. **Certificate of Excellence in Education from Global forum 2020**

## **Coordinating the Event**

1. **Web Designing 22 and 23 of March 2018**
2. **Image Processing for Medical Diagnosis using MATLAB 16 march 2018**
3. **Technical Quiz program 21 march 2018**
4. **Project Exhibition April 2018**
5. **Paper Presentation March 2019**
6. **MHRD Project Exhibition March 2019**

## **Overall Incharge to the Collge and Department**

- **NBA Coordinator**
- **NIRF Coordinator**
  
- **ARIIA Coordinator**
- **Conference Coordinator**
- **Symposium Coordinator**
- **IIC Coordinator**
- **NAAC Criteria Coordinator**

## **Journal Reviewer**

1. **Public Science Framework**
2. **International journal of Computer Security**
3. **The American Association for Science and Technology**
4. **Research Square**
5. **Journal of Theoretical and Applied Computer Science -  
[www: http://www.jtacs.org](http://www.jtacs.org)**
6. **Organizing committee of the 16th International  
Conference on Applied Computer Science to  
review and evaluate scientific papers in World**

Scientific and Engineering Academy and  
Society. <http://www.wseas.org/>

7. Chinna Communication
8. ICTACT Journal
9. Cluster Computing (Springer Journal )
10. American Journal of Information  
Science and Computer Engineering
11. BioMedical Research
12. IJARSET journal

#### **Resource Person**

#### **Contribution**

1. Session speaker in National Seminar on “The Dynamics of Data Analysis & Research Publications” Alpha Arts and Science College “ .
2. Delivered Guest Lecture in Engineering colleges in the topic of Object oriented Analysis and Design, Software Engineering etc.
3. Session Judge in Vel Tech University International Conference paper presentation event.
- 4 Act as a Resource Person for IP security Authentication Header in the Faculty Development Training program on CS6701 – Cryptography and Network security held between May 23 to May 30, 2016 at Panimalar Institute of Technology, Chennai.
- 5 Delivered Guest lecture in the topic “ Image Classification “ for IEEE maker Event Seed Fund 20 & 21 Dec 2016
- 6 Act as a Resource person as a Juries in Jeppiaar Engineering College
- 7 Acted as a Conference Chair in SaiRam Institute of Technology .

- 8 **Resource Person Contribution at Panimalar Institute of Technology For FDP “ Multicore Architectures and Programming in session “ Open Execution Model – Memory Model 15-11-2017.**
- 9 **Delivered Lecture in Anna University Approved FDP “ Grid and Cloud Computing “ at Panimalar Institute of Technology .**
- 10 **Act as a Technical Program Committee in SSN College of Engineering 2018**
- 11 **Act as a reviewer to review ICCIDS2019 manuscripts CSE DEPT at SSN College of Engineering 2018.**
- 12 **Resource Person for the ICMR WORKSHOP 19 & 20 July 2018 .**
- 13 **.Act as a Review Paper in ICICT 2019 at St.Peter's College of Engineering and Technology**
- 14 **. Editorial member in International Journal of Advance Research in Engineering, Science & Technology (IJAREST).**
15. **Resource person contribution in Mount Zion Engineering college “Blockchain and its uses “**
16. **STTP program at Panimalar Institute of Technology “ Green Computing “**
17. **STTP program at Panimalar Institute of Technology “ Green IOT Challenges and application in Blockchain”**
18. **Guest Lecture in Block chain and its uses at Mount Zion Engineering college**
19. **Guest Lecture in “Applications of Block Chain Technology in Current Trends” at Prince Bhavani Engineering College.**

**Doctoral Committee  
Member**

1. **Doctoral Committee member for the Candidate**  
**Mr.Muthuvel Raj ,Registered in Anna University ,**  
**2017**

**Internal Examiner for Doctorail Viva**  
**Voice**

1. **Hindustan University**
2. **Bharath University**

**Signature of the Faculty**