

## Dr. R. PARVATHI

**Designation** : Associate Professor, IT  
**Nature of Employment** : Regular  
**Qualification** : B.Tech., M.E., Ph.D.  
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### Education Background:

Degree	Discipline	Year of Passing	University
Ph.D.	Information and Communication Engineering	2016	Anna University
M.E.	Computer Science and Engineering	2010	Anna University
B.Tech.	Information Technology	2005	Anna University

### Work Experience:

S. No.	Designation	Institution	Duration		Experience
1.	Associate Professor	Hindustan Institute of Technology and Science (Deemed University)	08.09.2021	Present	1 month
2.	Associate Professor	G H Raisonni Institute of engineering and technology, Wagholi, Pune, Maharastra	06.11.2019	26.08.2021	1.9 Years
3.	Professor & PG Coordinator	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar, Kolhapur, Maharastra	01.11.2017	31.10.2019	2 Years
4.	Assistant Professor	PSNA College of engineering and technology, Dindigul, Tamilnadu	27.12.2010	21.10.2017	6.10 Years
5.	Lecturer	PSNA College of engineering and technology, Dindigul, Tamilnadu	02.03.2006	26.12.2010	4.10 Years
<b>Total</b>					<b>15.6 Years</b>

### **Lecture Courses:**

- Database Management Systems
- Object Oriented Analysis and Design
- Software Quality Assurance
- Object oriented Programming
- Data Structures and Algorithms
- Operating Systems
- Computer Programming
- Computer Architecture
- Computer Networks
- Pattern Recognition

### **Research Area:**

Biometrics, Machine Learning, Cyber Security, Internet of Things

### **Research Publications:**

#### **Journal Publication Details: (Total: 18, SCI: 1, Scopus: 6, Int. Journals: 11)**

1. Parvathi, R., Sidharth Nambiar, "Hand Gesture Recognition Using Ambient Lighting the Surrounding", International Journal for Research & Development in Technology, Volume-15, Issue-6, 97-99, June 2021.
2. Parvathi, R., Shlok Khandelwal, A Preliminary Project Report on Uphealth, International Journal of Advances in Engineering and Management (IJAEM), Volume 3, Issue 6, 2227-2237, June 2021.
3. Parvathi, R., & Sankar, M. (2019)," An Exhaustive Multi Factor Face Authentication using Neuro Fuzzy Approach", Wireless Personal Communications, Springer US, 80(3),1-23, August, <https://doi.org/10.1007/s11277-019-06685-4> (SCIE Indexed).
4. Parvathi, R., & Sankar, M. (2018)," A Fuzzy Gain Scheduling Method for Fault Tolerant Controller", International Journal of Pure and Applied Mathematics, 118 (20), 1083-1090. (SCOPUS Indexed).
5. Parvathi, R., & Sankar, M. (2018)," Designing Direct Current Converter Based on Flyback Topology", International Journal of Pure and Applied Mathematics, 118 (20), 1033-1102. (SCOPUS Indexed).
6. Parvathi, R., & Ghodake, S.S., (Nov,2018),"A Survey on Iris Recognition Based on Machine Learning Approach", International Journal of Advanced Research in Computer Engineering

& Technology,7(11), 780-783, ISSN: 2278 – 1323, DOI: <http://ijarcet.org/wp-content/uploads/IJARCET-VOL-7-ISSUE-11-780-783.pdf>.

7. Parvathi, R., & Shanthi, D. (2016). “A Fuzzy Adaptive Learning Control Network For Secure Multi Factor Face Authentication”, *International Journal of Advanced Engineering Technology* , 7 (1), 451-459.
8. Parvathi, R., & Shanthi, D. (2016),” Recognizing Expression Variant and Occluded Face Images Based on Nested HMM and Fuzzy Rule Based Approach”, *Circuits and Systems* , 7 (1),983-994, ISSN: 2153-1293, DOI: 10.4236/cs.2016.76083
9. Sankar, M., Batri, K., & Parvathi, R. (2016) “Automatic Classification Of Retinal Vessels Intoartery And Veins Using Supervised Graph Approach”, *International Journal of Advanced Engineering Technology* , 7 (1), 471-475.
10. Sankar, M., Batri, K., & Parvathi, R. (2016), “Detection Of Diabetic Retinopathy Using Minimum Mean Absolute Deviation Model And Support Vector Machine”, *International Journal of Advanced Engineering Technology* , 7 (1), 460-465.
11. Sankar, M., Batri, K., & Parvathi, R. (2016),”Earliest Diabetic Retinopathy Classification Using Deep Convolution Neural Networks”, *International Journal of Advanced Engineering Technology* , 7 (1), 466-470.
12. Parvathi, R., Shanthi Saravanan, D., & Sankar, M. (2015),”Robust Face Recognition based on Hidden Markov Model”, *International Journal of Applied Engineering Research* , Vol.10,iss.49,pp.364-368. ISSN: 0973-4562(**SCOPUS** Indexed).
13. Sankar, M., Batri, K., & Parvathi, R. (2015), “Analysis of Blood vessel classification to identify Glaucoma on retinal images using C++”, *International Journal of Applied Engineering Research* , 364-368. (**SCOPUS** Indexed).
14. Sankar, M., Batri, K., & Parvathi, R. (2015), “Segmentation and Classification of Diabetic retinopathy images using multiple features”, *International Journal of Applied Engineering Research* , 364-368. (**SCOPUS** Indexed).
15. Parvathi, R., & Shanthi, D. (2013), “Multi server authentication system using PKI and Kerberos”, *International journal of advanced and innovative research* , 2 (6), 313-318, ISSN:2278-7844
16. Parvathi, R., & Shanthi, D. (2013), “Efficient fingerprint recognition system using pseudo 2D hidden Markov model”, *International journal of soft computing* , 8 (5), 365-370, ISSN: 1816-9503, DOI: 10.36478/ijscmp.2013.365.370 (**SCOPUS** Indexed).
17. Parvathi, R., & Ratinaeswari, S. (2013),”Enhanced Network based Query Processing in Road Networks”, *International Journal of Computer Science and Mobile Computing* , 3 (4), 65-72.
18. Parvathi,R.,&Sankar,M.(2012),”Fingerprint AuthenticationSystemusing Hybrid Classifiers”, *International Journal of Soft Computing and Engineering* ,2(3),pp.185-190,ISSN:2231-2307, DOI:<http://www.ijscce.org/wp-content/uploads/papers/v2i3/C0752062312.pdf>

**Conference Publication Details: (Total: 11, Scopus Indexed: 5, International: 4, National: 2)**

1. Participated in **IEEE International conference**, “Solar based smart irrigation system using PIC & GSM”, International Conference on Inventive Computation Technologies”, 26-28 Feb, 2020 (**SCOPUS** Indexed).
2. Participated in **IEEE International conference**, “Image Processing Based Intelligent Traffic Controlling and Monitoring System Using Internet of Things”, International Conference on Intelligent Data Communication Technologies and Internet of Things, Springer Link, pp128-138, 2019 (**SCOPUS** Indexed).
3. Participated in **International conference**, “Real time objects detection and Gesture recognition in video sequence”, International Conference on Recent Innovations in Engineering and Technology Bhivarabai Sawant College of Engineering and Research, Pune, 2019.
4. Participated in **IEEE International Conference**,” An Effective Network Border Patrol Mechanism using Hybrid Algorithms”, R.V.S College of Engineering and Technology, Kolkata, April 2018 (**SCOPUS** Indexed).
5. Participated in **IEEE International Conference**,” Sun Light Based Electrolysis Process and Digital Advertising”, R.V.S College of Engineering and Technology, Kolkata, April 2018 (**SCOPUS** Indexed).
6. Participated in **IEEE International conference**, “A Spread spectrum Audio watermarking scheme based on geometric invariant feature”, Surya Engineering College, Erode, TamilNadu, February 2018 (**SCOPUS** Indexed).
7. Participated in **International conference**, “Robust Face recognition based on Hidden Markov Model”, RVSCET, Dindigul, TamilNadu, 2015.
8. Participated in **International conference**, “Analysis of Blood vessel classification to identify Glaucoma on retinal images using C++”, RVSCET, Dindigul, TamilNadu, 2015.
9. Participated in **International conference**, “Segmentation and Classification of Diabetic retinopathy images using multiple features”, RVSCET, Dindigul, TamilNadu, 2015.
10. Participated in **National conference**, “Secure Multifactor Authentication Service for ‘n’ Servers in Virtual Organization”, NIT, Trichy, TamilNadu, 2010.
11. Participated in **National conference**, “N-Servers Multifactor Authentication Service in Virtual Organization”, PSNA college of Engg & Tech, Dindigul, TamilNadu, 2010.

### Certifications obtained:

- Obtained Certificate in Two months Cyber Security Course, Internshala Training, 2021.
- Obtained “A” Grade in Two months Python Programming Course, Datacamp, 2020.
- Obtained “Elite” grade in **NPTEL Online Certification course** of “Programming in C++”, 2017.
- Obtained “A” grade in **Wipro Certification course** of “Java Programming”, Coimbatore, Tamil Nadu, 2017.
- Obtained “Excellent” grade in “**Diploma in J2EE Programming**”, CSC Computer Education, Dindigul, Tamil Nadu, 2005.
- Obtained “A+” Grade in “**Diploma in Computer Programming**”, TMC Computer Education, Dindigul, Tamil Nadu, 2002.

### Research Grant Details:

S. No.	Funding Agency	Title	Role	Duration	Amount (Rs.)	Current Status
1.	AICTE - RPS	Inclusion of Face Biometric Security System using Hidden Markov and Neural Network in Banking Sector	Co-Investigator	2014-2017	3,35,000	Successfully Completed.
2.	SERB - POWER	A Secure Industrial Internet of Things(IIoT) Environment using Blockchain and Deception Technology	Co-Investigator	2021	29,85,000	Review Process

### Achievements:

- Act as Scientific Committee member, International Conference on Data Science, Machine learning and Applications-2021, Rabindra Nath Tagore University, Madhya Pradesh.
- Act as Indian Examiner to evaluate Ph.D. Thesis report from Bharathidasan University, Trichy, Tamilnadu, 2019.
- Act as Resource Person, Workshop on Deeper insights into Machine Learning Algorithms, SRM University, Vada Palani Branch, 27<sup>th</sup> July 2021.
- Obtained copyright for Computer Network contents during 06<sup>th</sup> October 2020.