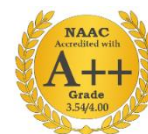




SETHU INSTITUTE OF TECHNOLOGY

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NAAC)



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Department of Computer Science and Engineering				
Name	<i>Dr.M.PARVATHY</i>			
Date of Birth	30.11.1978			
Unique ID	7332121907			
Educational Qualifications	<i>B.E.,M.E.,Ph.D</i>			
Designation	PROFESSOR			
EmailID	hodcse@sethu.ac.in and parvathy@sethu.ac.in			
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Experience	Industry	Teaching	Others	Total
	Nil	22 years	-	22 years
Date of Joining the Institution	12.06.2019			
Area of Specialization	<i>Data Mining, Big Data, IOT</i>			
Courses taught	B.E(CSE)- 22 Years M.E(CSE)-12 Years			
Research Focus	<i>Data Mining, Big Data, IOT</i>			
Research guidance (Number of Scholars)	Ph.D-8 Completed Ph.D- 8 On going PG- 12 Completed			
Subject Competency	Data Structures , Design and Analysis of Algorithms, Operating Systems, Object Oriented Programming			
No. of papers published	National Journals		International Journals	Conferences
	14		12	26
PG Specialization	Computer Science and Engineering			
Ph.D.Specialization	Information and Communication Engineering			
Projects Carried out	2			
Patents (Filed & Granted)	1			
Technology Transfer	...			



UPDATED PHOTO

No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.) ...	
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Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Computer Science and Engineering	Madurai Kamaraj University	2000
PG	M.E	Computer Science and Engineering	Anna University, Tirunelveli	2009
Ph.D.	Ph.D	Information and Communication Engineering	Anna University, Chennai	2015

Details of Journal Publication:

1. **M.Parvathy**, “TNet: A Trust Network for Predicting Trust in Online Social Networks.” , Information :An International Interdisciplinary Journal, Vol.17, No.4 , April 2014 **(International Journal)**
2. **M.Parvathy**, R.Ramya, K.Sundarakantham, S.Mercy Shalinie, “TRPC: An Ensembled Online Prediction Mechanism for Trusted Recommender System”., WSEAS: Transactions on Computers (Annex II) Volume 13, 2014, Art. #19. **(International Journal)**
3. **M.Parvathy**, K.Sundarakantham, S.Mercy Shalinie, “Cosine Similarity based Clustering and Dynamic Reputation Trust Aware Key Generation Scheme for Trusted Communication on Social Networking”, Journal of Statistical Computation and Simulation – **SCI Indexed Journal** (Annex I), Vol. 85, No.16, 2015. **(International Journal)**
4. **M.Parvathy**, K.Sundarakantham, R.Geetha, S.Mercy Shalinie, “An Enhanced Prediction Mechanism for Recommendation System Using Power Graph”, Australian Journal of Basic and Applied Sciences, Vol.8, No.18, Dec 2014. **(International Journal)**
5. **M.Parvathy**, **M.Kumudha**, **J.Dinesh**, “Securing the Automation Process By Prediction Of User Classification and MFA”, International Journal of Scientific Engineering and Applied Science (IJSEAS), Vol.2, No.12, 2016 **(International Journal)**

6. Ms.S.Sujeetha , Ms.K.Anuratha, Ms.J.Ghayathri, **Dr.M.Parvathy**, “Dynamic pattern generation and enhancing authentication using two-level QR code”, International Journal of Creative Research Thoughts (IJCRT), Vol. 6, No.1, Feb 2018. . (**International Journal**)
7. **M.Parvathy**, B.Tamil Selvi, PL.Prabha, C.H.Sumalakshmi, Deforestation Identification Model using RBC- Region Based Clustering”, International Journal of Computer Science and Engineering, Vol.6, No.3, Mar 2018 . (**International Journal**)
8. **N. Alangudi Balaji R. Sukumar, M. Parvathy**,“ Enhanced dual authentication and key management scheme for data authentication in vehicular ad hoc network”, Computers and Electrical Engineering Elsevier, **SCI Indexed** Journal Vol.76, 2019 . (**International Journal**)
9. Vaira Suganthi, G, Sutha, J & **Parvathy, M** 2020, ‘A Survey on Machine Learning Algorithms for the Diagnosis of Breast Masses with Mammograms’, Current Medical Imaging, Volume 16, Issue 6, pp. 639-652. (SCI Journal). IF-0.812
10. Vaira Suganthi, G, Sutha, J, **Parvathy, M** & Durga Devi, C 2020, ‘Deep Learning Algorithm for Breast Masses Classification in Mammograms’, IET Image Processing, Volume 14, Issue 12, pp. 2860-2868 (SCI Journal). IF-2.004
11. Vaira Suganthi, G, Sutha, J, **Parvathy, M** & Durga Devi, C, ‘Pectoral Muscle Segmentation in Mammograms’, Biomedical and Pharmacology Journal. (Scopus Indexed) Volume 13, Issue 3, pp. 1357-1365. IF-0.8
12. B.Pandeeswari, Dr.J.Sutha & **Dr.M.Parvathy**, “A novel synthetic aperture radar image change detection system using radial basis function-based deep convolutional neural network”, Journal of Ambient Intelligence and Humanized Computing, Volume 12. Issue 1,pp. 897-910(**International**)
13. Pl.Prabha, M.Parvathy, ‘ Extractive and Abstractive Text Summarization Techniques’, International Journal of Recent Technology and Engineering(IJRTE) ISSN:2277-3878, vol.9 no.1, May 2020
14. K Anuratha, M.Parvathy, R.Priyadarshini, D Saisanthiya, ‘Public Sentiment Insights Analysis using Word Sense Disambiguation Application on Twitter Data during a Pandemic-Covid’19’ International Journal of Advanced Trends in Computer Science and Engineering, vol 9,no.3, August 2020.
15. Mohamed Ali Jinna Mathina Kani, **Meenakshi Sundaram Parvathy**, Samsammal Maajitha Banu and Mohamed Saleem Abdul Kareem, “ Classification of skin lesion images using modified Inception V3 model with transfer learning and augmentation techniques”, Journal of Intelligent & Fuzzy Systems,vol.44,

16. **G VairaSuganthi** , J Sutha , **M Parvathy** and N Muthamil Selvi, “Genetic algorithm for feature selection in mammograms for breast masses classification”, *Computer Methods In Biomechanics And Biomedical Engineering: Imaging & Visualization*, 2023, vol. 11, no. 7, 2757–2768 , <https://doi.org/10.1080/21681163.2023.2266031>.(**SCI-Indexed**).
17. PL. Prabha and **M. Parvathy**, “Enhancing Text Summarization using Hybrid LSTM-GRU with Lingual Significance Relation-based Attention Mechanism Model”, *Ecti Transactions On Computer And Information Technology*, vol.18, no.2, April 2024, ISSN: 2286-9131(**SCI-Indexed**).
18. Manoj Kumar Prabakaran, **Parvathy MeenakshiSundaram**, **C.Abinaya Devi** , "An enhanced deep learning based phishing detection mechanism to effectively identify malicious URLs using variational auto encoder", *IET Information Security*, vol.17, no. 3, pp.423–440, December-2022, (Published by John Wiley& Sons Ltd on behalf of The Institution of Engineering and Technology) (**Impact factor 1.4**) (Q2) **Science Citation Index Expanded**.[DOI: https://doi.org/10.1049/ise2.12106](https://doi.org/10.1049/ise2.12106).
19. K. Anuratha, **M. Parvathy**, “Multi-label Emotion Classification of COVID-19 Tweets with Deep Learning and Topic Modelling”, *Computer Systems Science and Engineering*, vol.45, no. 3, pp.3005-3021, December 2022 .(**Published by Tech Science Press**) (**Impact Factor 4.397**) (Q3)**Science Citation Index Expanded**.<https://doi.org/10.32604/csse.2023.031553>.
20. P. Manoj Kumar, **M. Parvathy**, **C. Abinaya Devi**, “An Intelligent Approach for Intrusion Detection using Convolutional Neural Network ”, *Journal of Network Security Computer Networks*, Volume-8, Issue-1, Jan 2022. <http://matjournals.co.in/index.php/JONSCN/issue/view/24>. (**SCI-Indexed**)
21. **S.Asha**, **M.Parvathy**, “Effective Preprocessing of Medical Images using Denoising Techniques”, *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, Volume-11 Issue-2, July 2022, Page No: 153-158 ISSN: 2277-3878, Blue Eyes Intelligence Engineering and science. (**SCOPUS**)
22. K. Anuratha , S.Sujeetha , J.M.Nandhini , B.Priya and **M.Parvathy** , “Vaccine: Using Hashtags from Indian Tweets to Capture and Analyse the Sentiments of People on Vaccination for Covid’19 Pandemic”, *Advances in Parallel Computing*, vol no.39, Recent trends in Intensive Computing, DOI 10.3233/APC210183. (**SCOPUS**)

23. **S.Asha, M.Parvathy, D.Suriya**, "Effective Preprocessing of Satellite Images", International Journal of Engineering Research & Technology (IJERT), Volume12 -Issue 01|March-2024 ISSN (Online) : 2278-0181
24. **D.Suriya, M.Parvathy, S.Asha**, "Plant Leaf Disease Detection Using Multiclass SVM", International Journal of Engineering Research & Technology (IJERT), Volume12 -Issue 01|March-2024 ISSN (Online) : 2278-0181
25. **S.Selvi, M.Parvathy**, "Improving facial expression recognition for autism with IDenseNet-RCAformer under occlusions", International Journal of Developmental Neuroscience, <https://doi.org/10.1002/jdn.10391>, Volume 85, Issue 1 / e10391.
26. P.L.Prabha, **M.Parvathy**, "Abstractive text summarization from Amazon food review dataset using modified attention based Bi-LSTM autoencoder model", Journal of the Chinese Institute of Engineers, Vol.48, Issue No.3 Pg.no. 268-282, 2025.

Details of Conference attended:

1. Published a paper "Correlation Based Consistency Measure Algorithm for Feature Reduction" in the **IEEE International Advance Computing Conference** during March 2009.
2. Published a paper "Rule-Extraction from Support Vector Machines through ConsistencyBased Feature Selection Approach" in the International conference on Operations Research applications in Engineering and Management, Anna University Trichy during May 2009..
3. Published a Paper in National Conference entitled "Detection of Malicious Communities in Online Social Networks" (PSG-ACM National Conference on Intelligent Computing), during April 2013.
4. Published a paper "Trust Dependence Network for Recommender Systems" in **Fifth International Conference on Advanced Computing (ICoAC 2013) –IEEE xplore** \ during Dec 2013.
5. Published a paper "Recommendation System with Collaborative Social Tagging Exploration" Fourth International Conference on Recent Trends in Information Technology-IEEE xplore" during April 2014.
6. Published a paper "An Efficient Privacy Protection Mechanism for Recommendation using Hybrid Transformation Technique" in Sixth International Conference on Advanced Computing - IEEE xplore (Best Paper Award) held on Dec 2014

7. Published a paper “Safeguarding video contents in a virtual storage via code matching”, in the First International conference on Science, Engineering and Computer Technology 2016 on April 2016.
8. Published a paper “Efficient Data sharing in Cloud using public Key Cryptosystems”, in the Fourth International Conference on Design and Applications of Structures, Drives, Communicational and Computing Systems-2015 on Nov 2015
9. Published a paper “Analysis of Feature Extraction Algorithms”, in the Fifth International Conference on Design and Applications of Structures, Drives, Communicational and Computing Systems (ICDASDC 2016) on Dec 2016
10. Published a paper “Prediction of relationship between users using shared images”, in the AICTE Sponsored Sixth International Conference on Design and Applications of Structures, Drives, Communicational and Computing Systems(ICDASDC 2017) on Oct 2017.
11. Published a paper “Detecting Thief High Resolution Latent Fingerprint Images”, in ISRO Sponsored Tenth National Conference on Signal Processing, Communications & VLSI Design on Apr 2018 .
12. Published a paper “ Dynamic User Interests Clustering using Short Text Streams”, in Seventh International Conference on Design and Applications of Structures, Drives, Communicational and Computing Systems(ICDASDC 2019) on Mar 2019.
13. Abinaya devi C, Dr.M. Parvathy “Controlling Electrical Devices Using IOT”, National Conference on HI-TECH Trends in Emerging Computational Technologies, September 2020.
14. Published a paper “Heuristic approach to cloud resource allocation considering environmental sustainability aspects” National Conference on HI-TECH Trends in Emerging Computational Technologies, September 2020.
15. D.Vijayashanthi, M.MathinaKani, **M.Parvathy**, M.Abdul Kareem, ‘ Quantification of epicardial and Thoracic Adipose Tissue Using Krill Herd Optimized CNN’, in the proceeding of **Seventh National Conference on Hi-Tech Trends in engineering Computational Technologies”-SITCON 2019** held on 22.03.19 at Sethu Institute of Technology.
16. M.MathinaKani, **M.Parvathy**, K.G.Karthik ,R.Muthu raja, R.S.Logeswaran, “ Image Enhancement in Microscopy Images For Early Detection of Skin Cancer”,in the proceeding of 7th National Conference on ‘Hi-tech Trends in Emerging computational Technologies” ,SITCON 2019 held on 22.03.19 at Sethu Institute of Technology.
17. **Dr.M.Parvathy**, Mrs.M.MathinaKani ,Diviya M.A, “ Skin Cancer Lesion Detection By Image Segmentation Using Deep Learning Techniques”, 10th National Conference on Hi-

Tech trends in Emerging Computational Technologies, volume 1, held on 13th April 2023 at Sethu Institute of Technology, Kariapatti, India.

18. P L,Prabha, **Dr.M.Parvathy** ,” Automated Text Summarization Approach Using Kendall Rank Correlation Co- Efficient and Multi-Layered Attention Resnet Scheme” International Conference on " 2023-ICBAI & 2023-ORSI(Operational Research Society of India-kiarnataka(ORSI-KA)" , International Conference,IISC, December 18-20, 2023. Bangalore.

19. R.Niranjana, Dr. M.Parvathy, “ An Autonomus Iot Infrastruvture For Smart Home Automation”, INternational Conference On Emerging Trends Information And Communication Technologies,Etict 2K23,held on 2nd April 2023 at Sethu Institute of Technology,Kariapatti,India.https://drive.google.com/u/0/open?usp=forms_web&id=1lZZAbkyUIa4VeL23RvO_5WnhvcAU6BLO

20. K.Anuratha,M.Parvathy, “ Combined Weighted Whale Optimization and Attention-based Deep Learning Approach for Sentiment Analysis”,2022 International Conference on Computer Communication and Informatics (ICCCI) held on 25-27 Jan 2022 at Sakthi Engineering College,Coimbatore, India.

21. Narmatha.B.,Parvathy. M, A Street cleaning System using fasterr-Cnn, Ninth National Conference on vSITCON 2022, 27.04.2022, at Sethu Institute of Technology,India

22. Narmatha B, Dr. Parvathy M, Liver Tumor Detection Using Resnet-50 Feature Extraction And SVM Classification, International Conference on Recent Innovations in Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.

23. S. Asha, Dr.M. Parvathy, Bayes Shrinkage and Fused Wavelet Transform with Auto encoder based Deep Learning Approach for Magnetic Resonance Image Denoising, International Conference on Recent Innovations in Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.

24. C.Abinaya Devi, M.Parvathy, A. M. Abdul Wasigh Thalha, A. Abrar Ahamed, “Controlling Electrical Devices using IOT”, in 8th National Conference vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.

25. L. Shanmuga Priya ,M. Parvathy , R. Jothi Basu ,” Heuristic Approach to Cloud Resource Allocation Considering Environmental Sustainability Aspects “, in 8th National Conference vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.

26. Suresh kanna S, Stephen A, Mathina Kani M, Parvathy M, Abdul Kareem.M ,” Pneumonia Detection Using CNN based Feature Extraction “, in 8th National Conference

vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.

Details of Patents Filed and Granted:

Dr.S.Sridevi,Dr.C. Callins Christiyana ,Dr.D.Abithakumari ,Dr.M. Parvathy,"IOT Based Design For Brain Tumor Detection And Analysis With Advanced Imaging Techniques On MRI Images",202041053804 A and 22.01.2021,Published.

Expert Lecture Delivered:

1. Delivered a lecture in the topic "An Introduction –R-Tool" at K.L.N College of Information Technology on 02nd March 2017.
2. Delivered a lecture in the topic "Use of ICT Tools with Demonstration" for AICTE-ISTE sponsored Six Days Induction Programme on Pedagogical Innovations and Best Practices for Skill Based Academic Leadership at K.L.N College of Information Technology on 11th May 2018
3. Delivered a lecture in the topic "Hands on R-Tool" for ICMR Sponsored Seven days National workshop on Deep Learning Applications in Medical Imaging at K.L.N College of Information Technology on 15th Nov 2018