

## **BIODATA**



1. NAME: : Dr. M.Sumathi
2. QUALIFICATION : M.Sc., Ph.D,
3. DESIGNATION : Head and Associate Professor  
PG & Research Department of Computer  
Science  
Sri Meenakshi Government Arts College for  
Women(A), Madurai-2
4. AGE & DATE OF BIRTH : 53 yrs 02.04.1971.
5. SEX : Female
6. PERMANENT ADDRESS : No. 4/34A, Bharathiyar Nagar 11<sup>th</sup> Street,  
Nagamalai, Madurai - 625019
7. ADDRESS FOR COMMUNICATION : No. 4/34A, Bharathiyar Nagar 11<sup>th</sup> Street,  
Nagamalai, Madurai - 625019
8. EDUCATION QUALIFICATION:

S.NO	COURSES	SUBJECT	YEAR OF COMPLETION	INSTITUTION
1.	Ph.D	Computer Science	2010	Madurai Kamaraj University Madurai
2.	M.Sc	Computer Science	1993	St.Joseph's College, Bharathidasan University, Trichy
3.	B.Sc	Computer Science	1991	Madurai Kamaraj University Madurai
4.	SLET	Computer Science	1997	Bharathidasan University, Trichy

9. Research : Completed Ph.D in Computer Sciecn, Madurai Kamaraj  
work/Experi University, on the Topic “ Algorithms for Gibbs ringing  
ence artifacts reduction in EMR images”

10. Recognized Research guide : Yes  
Approved Research Guide in Computer Science,  
Madurai Kamaraj University.

11. Area of Specialization : Image Processing

12. TEACHING EXPERIENCE:

S.NO	DESIGNATION	PLACE	DURATION	NO.OF YEARS
1.	Lecturer in Computer Science	N.M.S.S.V.N College, Nagamalai	1993 to 1998 (1.10.93 – 14.10.98)	5 years
2.	Lecturer in Computer Science	Govt.Arts College for Women, Ramnad	1998 to 2000 (15.10.98 – 28.8.2000)	1 year 10 months
3.	Head and Asso.Prof in Computer Science	Sri Meenakshi Govt.College for Arts Women(A), Madurai	29.8.2000 to till date	24 years
<b>Total Teaching Experience</b>				<b>31 Years</b>

13. ORIENTATION/REFRESHER COURSES:

S.NO	NAME OF THE COURSE	TOPIC	PLACE	PERIOD
1.	Orientation	General	MKU, MDU	Feb 1999 1 <sup>st</sup> to 28 <sup>th</sup>
2.	Refresher	Value Education	Vivekananda College, Sholavandan	Nov 1 <sup>st</sup> to 28 <sup>th</sup> 2003
3.	Refresher	Computer Science	MKU,MDU	Feb 01 to feb28 2004
4.	Refresher	Computer Science	MKU,MDU	Feb 01 to feb28 2006

14. INTERNATIONAL PUBLICATIONS:

S. No	CONFERENCE	TITLE	PLACE	PERIOD
1.	International Conference	Tapering Windows for Gibbs Ringing Artifacts Reduction in Fourier Electron Magnetic Resonance Imaging. Proceedings of International Conference on Cognition and Recognition (ICCR-	Mandiya, Mysore	22nd-23rd Dec 2005

		05),661- 669, 2005		
2.	International Conference	Evolutionary Computational approach for artifact-free image reconstruction from reduced samples: Application to Fourier EMRI, International Conference on Computational Intelligence and Multimedia Applications, I, IEEE Computer Society Press, Volume – III, 349-354, 2007	Mepco Engg College, Sivakasi	13 <sup>th</sup> – 15 <sup>th</sup> Dec 2007
3.	International Conference	Secure Dual Watermarking in the Wavelet Domain for Teleradiology, International Conference on Advances in Information and Communication Technologies (ICICOT07), Macmillan Research Series, 312-316, 2007	Manipal Institute of Technology Manipal	28 <sup>th</sup> – 30 <sup>th</sup> Dec 2007
4.	International Journal on computational intelligence and applications	GA-based optimization of tapering windows for artifact reduction in Fourier electron magnetic resonance images, International journal on computational intelligence and applications (IJCIA), 8, 111-125, 2009 ISSN: 1469-0268 Impact Factor-0.494.		November-2009
5.	International Journal of Ideas	Fusion of Multiscale of Image Using Wavelet Transform, Vol.24, No.278, ISSN 0970-7247		April-2010
6.	International Journal of Ideas	Lossy Image Compression and Vector Quantization Technique, Vol.10, No.280, ISSN 0970-7247		June-2010
7.	International Journal of Ideas	Challenges in E-Learning, Vol.24, No.283, ISSN 0970-7247		Sept-2010
8.	International Conference	A Study of Pattern Matching Algorithms for Biological Sequences, International Conference on Recent Trends in Information Processing and Computing – ICIPC'2012	Nadar Saraswathi College of Arts & Science, Theni.	6 <sup>th</sup> & 7 <sup>th</sup> January 2012
9.	International Conference	A Survey on Seed Classification using Image Analysis Techniques, International Conference on Recent Trends in Information Processing and Computing – ICIPC'2012	Nadar Saraswathi College of Arts & Science Theni	6 <sup>th</sup> & 7 <sup>th</sup> January 2012
10.	International Conference	Measurement of Heart Rate Based On Clustering, International Conference on Recent Trends in Information Processing and Computing – ICIPC'2012	Nadar Saraswathi College of Arts & Science, Theni.	6 <sup>th</sup> & 7 <sup>th</sup> January 2012
11.	Springer	Design of efficient objective function	Gandhigram	16 <sup>th</sup> – 18 <sup>th</sup>

	International Conference	for stochastic search algorithm , ICMMSC 2012. CCIS 283, pp. 480–487, 2012. Springer-Verlag Berlin Heidelberg 2012, Impact Factor : 0.564	Rural Institute, Deemed Univesity , Gandhigram	March 2012
12.	IEEE International Conference	Qualitative Evaluation of Pixel Level Image Fusion, Algorithms, Proceedings of the International Conference on Pattern Recognition, Informatics and Medical Engineering, 978-1-4673-1039- 0/12/\$31.00 ©2012 IEEE	Periyar Univercity, Selam – PRIME 2012	March 21- 23, 2012
13.	International Journal	Cluster Based Evaluation of Image Fusion Algorithms, International Journal of Computational Intelligence and Informatics, ISSN: 2231 – 0258, Volume 1 : No.4, Jan-Mar 2012		May 2012
14.	International Journal	Design a Reliable Cloud computing strategy for efficient data accessibility and resource sharing. International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 3, Issue 12 (September 2012), PP. 10-13		Sep 2012
15.	IEEE International Conference	Design of Algorithm for Vehicle Identification by Number Plate Recognition, ISBN: 978-1-4673-5583-4 IEEE Explore, DOI: <a href="http://dx.doi.org/10.1109/ICoAC.2012.6416823">http://dx.doi.org/10.1109/ICoAC.2012.64 16823</a> Usage: 149 references (since Jan2013)	Anna University , MIT Campus, Chennai ICoAC2012	Dec 13 <sup>th</sup> - 15 <sup>th</sup> 2012
16.	International Journal	Optimized Multi-tenancy Secure mechanism in SPI Cloud Architecture, International Journal of Computer Science & Applications (TIJCSA), Volume 1, No. 12, February 2013 ISSN – 2278-1080 Impact factor: 0.85		Feb 2013
17.	International Conference	A Multi-gene, Multi-parameter Genetic Algorithm for Block-based Feature-level Image Fusion, Proceedings of Seventh International Conference on Image and Signal Processing, Bangalore, ISBN: 978- 93-5107-106-8	ICISP 2013	August 9 – 11, 2013
18.	International Journal	Relational Features of Remote Sensing Image Classification using Effective K- Means Clustering, International Journal of Advancements in Research & Technology Volume 2, Issue8, August	IJoART	August 2013

		2013 Edition (ISSN 2278-7763) Impact factor 0.4		
19.	International Journal	Design of algorithm for detection of objects from Tera Hertz images IOSR Journal of Computer Engineering (IOSR-JCE), ISSN: 2278-8727, Volume 13, Issue 2 Indexed NASA Astrophysics Data System  Impact Factor: 1.686	IOSR Journal of Computer Engineering (IOSR-JCE)	Jul-Aug 2013
20.	International Journal	Remote Sensing Image Classification – A Perspective Analysis, Third Concept, An International Journal of Ideas,(ISSN 0970-7247)-Vol-27, No-319.	IJOTC	Sep 2013
21.	International Journal	High Reliable SPI Model To Enhance Data Transparency With Cloud Security, Asian Academic Research Journal Of Multidisciplinary Associates, Volume 1 Issue 13 , ISSN: 2319-2801 Impact Factor: 2.015	AARJMD	SEP 2013
22.	International Journal	High Emphatic Feature Selection Classification Algorithm for SVM in Remote Sensing Images, International Journal of Latest Technology in Engineering, Management and Applied Science	IJOLTEMAS	Oct 2013
23.	International Conference	Relational Color Features of Remote Sensing Image Classification Using Dynamic Global Threshold Method	International Conference on Research and Scientific Innovation ICRSI 2013 Ahmedabad, Gujarat	Dec 2013
24.	International Conference	A Simple and Efficient Feature Based Image Classification of Remote Sensing Images using Local Threshold Method	ENIAC – International Conference, National Engineering College, Kovilpatti	Jan 2014
25.	International Journal	Filling the consistency and reliability gap in elastic cloud – An IaaS approach, International Journal of Engineering Research and Development. e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 10, Issue 2 (February 2014), PP. 16-21		17 <sup>th</sup> February, 2014
26.	International Conference	Effective Features of Remote Sensing Image Classification Using Interactive Adaptive Thresholding Method.	International Conference on Intelligent	Mar 2014

			Computing ICIC 2014 Bharathiyar University, Coimbatore	
27.	International Conference	Design of BP-ANN Algorithm for Detection of Breast Cancer , ICETET'14 PSYEC		Marach 2014
28.	International Journal	Fast And Efficient Classification Algorithm For Fuzzy C-Means Clustering In Remote Sensing Images, International Journal of Innovative Science, Engineering and Technology ISSN 2348 – 7968 ( Volume 1, Issue 2, April 2014 Impact Factor of IJESIT is 1.753		April 2014
29.	International Journal	International Journal on Computer Science and Engineering (IJCSE) Neural Network Based Forecasting of Foreign Currency Exchange Rates, ISSN : 0975-3397 Vol. 6 No.06		Jun 2014
30.	International Journal	PCA Based Classification of Relational and Identical Features of Remote Sensing Images International Journal of Engineering And Computer Science ISSN:2319-7242 Volume 3 Issue 7 Page No. 7221-7228		July, 2014
31.	International Conference	A Performance Analysis Of Wavelet Transformation Based Image Compression For Different Modalities	Fatima College, Madurai	Aug 2014
32.	International Journal	Adaptive Boost less Magnitude based on Segmented Evaluation Resolution System Int.J.Computer Technology & Applications, Vol 5 (5),1630-1636		Sept-Oct 2014 ISSN:2229- 6093
33.	International Journal	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 9, Number 24 (2014) pp. 27433-27455 Performance Comparison of Artificial NeuralNetwork techniques for Foreign Exchange rate forecasting		2014
34.	International Journal	International Journal of Applied Engineering Research, Issn 0973-4562 Volume 9, Number 24 (2014) Pp. 27433- 27455, Crude Oil Prediction Using A Hybrid Radial Basis Function Network		Nov 2014
35.	International Journal	Methodological Factor Remote Sensing Image Classification Process – A Vision Journal of Modern Science TANSICHE	Issn:2277 - 7628	Nov-14

36.	International Journal	Forecasting of Foreign Currency Exchange Rate Using Neural Network, International Journal Of Engineering And Technology (Ijet), Issn : 0975-4024 Vol 7 No 1		Feb-Mar 2015
37.	International Journal	Design of detection algorithm for Brain Tumor Using MemART2 Network, ,IEEE Conference, Salem		Mar 7 <sup>th</sup> -8 <sup>th</sup> 2015
38.	International Conference	BIG DATA ANALYSIS FOR Enterprise cloud using Two Phase Authentication, International Conference on Engineering and Technologies Trivandrum, India.		April 10-11, 2015,
39.	International Journal	Investigation on the Revolution and Need of Energy Efficient Smartphone Development, ISBN : 973-93-80886-55-0, International Journal of Computer Applications (0975 – 8887) Volume 117 – No.11, May 2015		May 2015
40.	International Journal	Comparative Study on Energy Efficient GUI in Smartphone Environment, International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 4, Issue 8, August 201	ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710	August 2015
41.	International Journal	Evaluation of Spatial and Transform Fusion methods for Medical Images using Normalized Non-Reference Quality Metrics, International Journal of Computer Applications (0975 – 8887) Volume 143 – No.13, June 2016		June 2016
42.	International Journal	Forecasting Gold Prices Based on Extreme Learning Machine, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL ISSN 1841-9836, 11(3):372-380,.		June 2016
43.	International Journal	Forecasting Response Time in Elastic Cloud for Secure Resource Access in Transactional Database using Two Phase Authentication System, Indian Journal of Science and Technology, Vol 9(31), DOI: 10.17485/ijst/2016/v9i31/85785ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645		,August 2016
44.	International Journal	“Adaptive PET/CT fusion based on Metabolic Activity Measurement has been accepted” “5th International Conference		July 15 & 16, 2016

		on Recent Trends in Engineering, Science and Management which is being held on July 15 & 16, 2016 at Madurai,		
45.	International Journal	Prediction of Stock Market Price using Hybrid of Wavelet Transform and Artificial Neural Network, Indian Journal of Science and Technology, Vol 9(8), DOI: 10.17485/ijst/2016/v9i8/87905,		2016
46.	International Journal	Foreign Exchange Rate Forecasting using Levenberg Marquardt Learning Algorithm, Indian Journal of Science and Technology, Vol 9(8), DOI: 10.17485/ijst/2016/v9i8/87904,		2016
47.	International Journal	An Artificial Neural Network Model to Forecast Foreign Exchange Rate, International Journal of Computer Science and Engineering, Volume 6, Issue 6,		2016
48.	International Conference	A Review On Threshold Based segmentation Techniques In Image Processing, International Conference on Managing Disaster –A Strategic Perspective”		29 <sup>th</sup> and 30 <sup>th</sup> sep 2016.
49.	International Journal	PET/CT Fusion using Pixel Level Adaptive Weighted Alpha Blending. IJCSET(www.ijcset.net)   October 2016   Vol 6, Issue 10,339-343		Oct 2016
50.	International Journal	A New Adaptive Weighted Fusion Rule for Wavelet Based PET?CT Fusion, Int Jour of Signal Processing and pattern Recognition,Vol 9,No.11(2016) pp 271-282		2016
51.	International Journal	Forecasting Response Time in Elastic Cloud for Secure Resource Access in Transactional Database using Two Phase Authentication System,Indian Journal of Science and Technology DOI: 10.17485/ijst/2016/v9i31/85785 Volume: 9, Issue: 31, Pages: 1-7		2016
52.	International Journal	Analysis Of Energy Profilers In Smartphone Environment, International Journal of Advanced Research in Science and Engineering, vol no.6,Issu No.2,February 2017	ISSN(o) 2319-8354 ISSN(P)2319 - 8346	February 2017
53.	International Journal	A Survey on the Application of Data Mining Techniques for Software Quality Enhancement, International Journal of Advanced Research Trends Engineering Technology (IJARTET), Vol 4, Issue 2.	ISSN 2394-3777(Print) ISSN 2394 – 3785 (Online)	February 2017

54.	International Conference	Adaptive PET/CT Fusion using Empirical Wavelet Transform , International Conference on Computational Intelligence and Informatics-2017(ICCII-2017,		September 2017
55.	International Conference	Synthesis and Optical Characterization of Silver Doped Hydroxyapatite / Tio <sub>2</sub> Nanoparticles. International Conference on Emerging Trends in Multidisciplinary Research .Umar Pulavar Tamil Language Centre, Singapore.		27 <sup>th</sup> & 28 <sup>Th</sup> December 2017
56.	International Conference	MRI Based Brain Tumor Edge Detecton Using various Edge Detection Techniques” in the International Conference on Data Analytics and Visualization		15 <sup>th</sup> feb 2018.
57.	International Conference	”Various filtering approaches used in MRI medical images” in the International Conference on” Applied soft Computing Techniques (ICASCT18)		23,24 of mar 2018
58.	International Journal	Anatomizing the Influence of the Screen States and Radio Signaling in Energy Consumption of Smartphone”, International Journal of Advanced Research in Science and Engineering (2319-8354), Vol 7, Issue 7, pp. 1215-1227		April 2018
59.	International Journal	Analysis of Radio Resource Energy Consumption Pattern in Cellular Network	International Journal of Computer Sciences and Engineering E-ISSN: 2347-2693	Vol.-6, Issue-7, July 2018
60.	International Journal	Energy Efficient Developments of Smartphone Environment and Cellular Network –Opportunities and Challenges	International Journal of Computer Sciences and Engineering	Vol.-6, Issue-7, July 2018
61.	International Journal	Study and Analysis of User Interaction Patterns in a Smartphone Environment	International Journal of Innovative Knowledge Concepts (IJIKC) ISSN: 2454-2415	Vol 6 No 10 October 2018
62.	International Journal	PS Energy Optimization: A Proposed Model of Adaptive Radio Connection Management	International Journal of Management, Technology	Vol 8, Issue XII, December 2018

			And Engineering	
63.	International Conference	Analysis of Brain Tumour Segmentation Using MRI Image Segmentation Methods, in the International Conference “Information Security Risks-Techno Legal Management(TRLMISR-2018)ON 21,22		2018.
64.	International Journal	Refining Software Code Quality Metrics Extraction in SVS Model, International Journal of Applied Engineering Research ISSN 0973-4562, Volume 14, Number 20 (2019) pp. 3841-3849		2019
65.	International Journal	Software metric selection in svcs model using feature selection methodologies International journal of research and analytical reviews (IJRAR) , Volume 6, Issue 2,E-ISSN 2348-1269, P- ISSN 2349-5138   Impact factor: 5.75		June 2019
66.	IEEE International Conference on Advances in Information Technology	Building a Data Mining Based Software Reliability Estimation Model	Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka.	25 - 27, July 2019
67.	International Journal	Energy Efficient Algorithm for High Speed Packet Data Transfer on Smartphone Environment, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6,		August 2019
68.	International Journal	Svs: Prediction Framework for Software Quality Enhancement through Data Mining Techniques, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-2,		December, 2019
69.	International Journal	Brain Tumor Identification Using Hybrid Genetic Algorithm with OTSU Segmentation, TEST Engineering and Management, Volume 83 Page Number: 9798 - 9804 , ISSN: 0193-4120		March - April 2020
70.	International Journal SCOPUS INDEXED	Survey On Data Security In Cloud Environment, International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 4, pp. 193-204, Article ID: IJARET_11_04_019 ISSN Print: 0976-		April 2020

		6480 and ISSN Online: 0976-6499		
71.	International Journal SCOPUS INDEXED	Id Based Adaptive-Key Signcryption For Data Security In Cloud Environment, International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 4, pp. 205-220,ISSN Print: 0976-6480 and ISSN Online: 0976-6499		April 2020
72.	International Journal SCOPUS INDEXED	Sentimental Analysis Using Association Rule Mining-A Survey, International Journal of Advanced Science and Technology Vol. 29, No. 9s, (2020), pp. 3398-3413	The American College, Madurai	May 2020
73.	International Journal SCOPUS INDEXED	Identity Based Adaptive Key Encryption for Data Security in Cloud Environment, European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 07, Issue 02, 2020		June 2020
74.	International Journal	Secure Elastic Cloud Resource Access in SPI Transactional Database Using Out of Band secure mechanism		2020
75.	International Journal SCOPUS INDEXED	A Prototype Model of Virtual Authenticated Key Exchange mechanism over Secured Channel in Ad-Hoc Environment, International Journal of Recent Technology and Engineering (IJRTE), ( <b>Indexed by Scopus</b> ),ISSN: 2277-3878, Volume-8 Issue-5.		2020
76.	International Journal	ID BASED ADAPTIVE-KEY ENCRYPTION USING TDES AND RSA FOR DATA SECURITY IN CLOUD ENVIRONMENT, International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 11, ISSN Online: 0976-6499		NOV 2020
77.	International Journal	Improved connected component labeling algorithm for remote sensing image classification, International Journal of scientific research in computer science, engineering and information technology, Vol.7, Issue 2,		Mar-April 2021

78.	International Conference SCOPUS INDEXED (IEEE)	Nuances of Data Pre-processing and its impact in Business Proceedings of the Fifth International Conference on Intelligent Computing and Control Systems (ICICCS 2021), IEEE Xplore Part Number: CFP21K74-ART; ISBN: 978-0-7381-1327-2	Vaigai College of Engineering, Madurai	June 2021
79.	International Conference SCOPUS INDEXED (IEEE)	Challenges of Sentimental Analysis-A Survey, Proceedings of the Fifth International Conference on Trends in Electronics and Informatics (ICOEI). IEEE Xplore Part Number:CFP21J32-ART; ISBN:978-1-6654-1571-2	SCAD Engineering College, Tirunelveli	July 2021
80.	International Journal SCOPUS INDEXED	SPI Transactional Database Using Secure Elastic Cloud Access with OOB, Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 9, August 2021: 3360 – 3371		August 2021
81.	International Journal (UGC CARE)	Anomaly Detection Using Pso In Cloud Integrated Iot Devices Usign Mdgan, International Journal of Aquatic Science ISSN: 2008-8019 Vol 12, Issue 03, 2021		2021
82.	International Conference (SPRINGER)	Segmentation and Sentiment Word Categorization using Feature Extraction – A Novel ASFW Framework in 3rd International conference on Communication, Computing and Electronics systems, 978-981-16-8862-1		2021
83.	International Journal (SCOPUS)	Hybrid Genetic Algorithm with K-Means for Detection of Brain Tumor in Design Engineering ISSN: 0011-9342   Issue: 8   Pages: 17248 – 17256		2021
84.	International Journal	Reliable Cloud Applications Sharing Using Secure API For SPI Model, Journal of Chengdu University of Technology, ISSN-NO- 1671-9727		2021
85.	International Journal (SCOPUS)	A Review On Early Detection, Staging Perspectives And Preliminary Processes For Oral Cancer Detection in Design Engineering ISSN: 0011-9342		2021

		Issue: 7   Pages: 14111 – 14116		
86.	International Journal (Web of Science)	A Systematic Review On Oral Cancer Diagnosis And Prognosis Using Machine Learning Techniques in Journal of Algebraic Statistics, Vol.13 No.3, p-3542-3550, ISSN: 1309-3452		2022
87.	International Conference (Springer)	The Predictive Model: Machine Learning based Best Path GES Methodology with Weather and AQI Data, 3 <sup>rd</sup> International Conference on Recent Advances in Sustainable Environment.	RAiSE2023	2023
88.	International Conference (IEEE Xplore)	Machine Learning for Plankton Species Identification and Classification: A New Era in Marine Ecology, International Conference on Inventive Research in Computing Applications (ICIRCA), pp. 101-108, Coimbatore, India, 2023, pp. 101-108, doi: 10.1109/ICIRCA57980.2023.10220751.	RVS College of Engineering and Technology, Coimbatore	Aug, 2023
89.	International Journal (WEB OF SCIENCE)	A Novel Approach to Classify Sentiments on Different Datasets Using Hybrid Approaches of Sentiment Analysis	Indian Journal Of Science And Technology	Oct, 2023
90.	International Journal (SCOPUS)	Review of Factors Affecting Efficiency of Online Education	European Chemical Bulletin	Dec, 2023
91.	International Conference (ELSEVIER)	Ethno medicine of Indigenous Communities: Tamil Traditional Medicinal Plants Leaf detection using Deep Learning Models	Procedia Computer Science	May, 2024

### 15. NATIONAL PUBLICATIONS:

S. No	Conference	Title	Place	Period
1.	National Conference	A Privilege Cloud Using Spi Transactional Database With Two Phase Authentication Mechanism, National Conference on Recent Trends in Network Security, SSN,	Chennai	25th June 2014
2.	National	A well-built Two Thase Authentication	Thiagarajar	12th

	Conference	scheme for Cloud Computing, National conference on Recent Trends in Soft Computing,	School of Management, Madurai	September 2014
3.	National Conference	Analysis Of Blood Vessel Segmentation In Retinal Fundus Images. Proc.of National Conf. Recent Trends and Research Research Issues in Computer Science, RTRICS-2014	Cardamom panthers Associations' College, Bodinayakanur	Oct 9 – 10 2014
4.	National Conference	A Novel Bit Based Image Steganography Algorithm, Proc.of National Conf. Recent Trends and Research Research Issues in Computer Science, RTRICS-2014	Cardamom panthers Associations' College, Bodinayakanur	Oct 9 – 10 2014
5.	National Conference	Level By Level Qualitative Evaluation Of Compression Algorithm For Different Modality Images, Proc.of National Conf. Recent Trends and Research Research Issues in Computer Science, RTRICS-2014	Cardamom panthers Associations' College, Bodinayakanur	Oct 9 – 10 2014
6.	National Conference	Authentic User Validation Using Captcha Code, Proc.of National Conf. Recent Trends and Research Research Issues in Computer Science, RTRICS-2014	Cardamom panthers Associations' College, Bodinayakanur	Oct 9 – 10 2014
7.	National Conference	Automated Diagnosis Of Diabetic Retinopathy And Glaucoma Using Fundus Images	Fatima College, Madurai	Aug 2014
8.	National Conference	Analyze the Revolution of Smartphone Developments and its Power Consumption	Gandhigram Rural Institute Deemed University, Dindigul	17 <sup>th</sup> & 18 <sup>th</sup> Dec 2015.
9.	National Conference	Study of Energy Aware Researches in UMTS Networks	Mangayarkaras i College of Arts & Science for women, Madurai	30 <sup>th</sup> Jan 2016.
10.	National Conference	Image Recognition System Using MATLAB, the National Conference on “Ambient Computing Technologies		16 <sup>th</sup> sep 2016.

#### 16. REVIEWER FOR INTERNATIONAL CONFERENCES:

1.	International Conference	International Conference on Logic, Information, Control & Computation –	February 25 – 26, 2011
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		2011 (ICLICC 2011), Department of Mathematics, The Gandhigram Rural Institute – Deemed University , Gandhigram	
2.	International Conference	International Conference on Mathematical Modelling & Scientific Computation — ICMMS 2012. Gandhigram Rural Institute, Deemed University , Gandhigram	16 <sup>th</sup> – 18 <sup>th</sup> March 2012
3.	International Conference	International Conference on Pattern Recognition, Informatics and Medical Engineering, PRIME 2012, Periyar University, Selam	March 21-23, 2012
4.	International Conference	First International Conference on Mining Intelligence and Knowledge Exploration (MIKE 2013) Research Center in Computer Science, VHNSN College (Autonomous), Virudhunagar, Tamil Nadu, India	December 18-20, 2013
5.	International Conference	The Fifth International Conference on Signal and Image Processing (ICSIP), B.N.M. Institute of Technology, Bangaluru, India.	January 8-10, 2014
6.	International Conference	International Conference on Intelligent Computing ICIC - 2014, Bharathiyar University, Coimbatore	March 2014
7.	International Journal	International Journal of Rough Sets and Data Analysis (IJRSDA)	May 2014
8.	International Conference	The Third International Conference on Control, Modelling, Computing and Applications (CMCA-2014)	Oct 2014

#### 17. CHAIR PERSON FOR INTERNATIONAL CONFERENCES:

1.	Chair Person Symposium	State Level Technical Symposium VYUHAM , K.L.N.college of Engg, Madurai	18th February 2010
2.	Chair Person International Level	International Conference on Logic, Information, Control & Computation – 2011 (ICLICC 2011), Department of Mathematics, The Gandhigram Rural Institute – Deemed University , Gandhigram	February 25 – 26, 2011
3.	Chair person International Level	International Conference on Pattern Recognition, Informatics and Medical Engineering , PRIME 2012, Periyar University, Selam	March 21-23, 2012
4.	Chair Person International Level	First International Conference on Mining Intelligence and Knowledge	December 18-20, 2013

		Exploration (MIKE 2013) , Research Center in Computer Science, VHNSN College (Autonomous), Virudhunagar, Tamil Nadu, India	
5.	Chair Person International Level	The Fifth International Conference on Signal and Image Processing (ICSIP), B.N.M. Institute of Technology, Bangaluru, India.	January 8-10, 2014
6.	Chair Person International Level	International Conference on Emerging Trends in Multidisciplinary Research .Umar Pulavar Tamil Language Centre, Singapore.	27 <sup>th</sup> & 28 <sup>th</sup> December 2017

### 18. INVITED TALKS DELIVERED – NATIONAL / STATE LEVEL CONFERENCES

1	State Conference	State Level Seminar on "Information Security", Arul Anandar College, Karumathur	08.02.2011
2	National Conference	National level Seminar on "Trends in advanced Computing", NS College, Theni	16.02.2011
3	National Workshop	National Workshop on Improving Research Documentation with LaTeX, Madurai Kamaraj University, Madurai	23.09.2011
4	National Conference	National Conference on "Advancement in Computing", SFR College, Sivakasi	September 25-26th 2012
5	National Conference	National Conference on "Advancement in Computing", Sourastra College, Madurai	29.09.2012
6	National Conference	National Conference on "Bio Inspired Computing", N.M.S.S.Vellaisamy Nadar College, Madurai 19	31.12.2012
7	National Conference	National Conference on "Emerging Challenges in Digital Image / Video Processing", Ayyanadar Janakiammal College, Sivakasi.	05.02.2013
8	National Conference	UGC Sponsored One Day National Level Seminar on "Research Issues In Computer Science And Applications Ricsa" , Souras College, Madurai	09.02.2013
9.	State Level Conference	NMSSVN, College, Madurai on Applications of Biometrics.	

### 19. BOOKS PUBLISHED

S.No	Title
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1.	My Research Begins with 3G networks. NAPLIN Publications
2	Into the Wild Energy Efficient Research

## 20. AWARDS RECEIVED

S.No	Awarded by	Award	Year
1.	Pearl Foundation Educational Excellence Awards to Higher Education in India	Best Associate Professor in Computer Science	2021

## 21. TECHNICAL TALKS DELIVERED

1	Technical talk and Inaugural Address	VIVID COMPU Meet -2008	8 <sup>th</sup> Aug 2008
2	Resource Person	Workshop on Image processing using MATLAB – Pioneer Meenakshi College, Poovanthi	19 <sup>th</sup> to 20 <sup>th</sup> 2010
3	Resource Person	PG Department of Mathematics SMGC, Madurai	2007
4	Resource Person	SFR College, Sivakasi	30.11.2010
5	Resource Person	Jeyaraj Annapakium College, Workshop on Signal processing through MATLAB	20 <sup>st</sup> to 21 <sup>th</sup> 2010
6	Resource Person	V.V.V. College, Viruthunagar, Association Meeting	23 rd Dec 2010
7	Resource Person	V.V.V. College, Viruthunagar, Worshop on MATLAB	23 rd Dec 2010
8	Resource Person	Gandhi Gram Rural Institute,Gnadhigram	26.01.2011
9	Resource Person	APPSA College, Thirupathur	02.02.2011
10	Resource Person	Gandhi Gram Rural Institute,Gnadhigram	05.02.2011
11	Resource Person	State Level Seminar on "Information Security",Arul Anandar College, Karumathur	08.02.2011
12	Resource Person	Association Inauguration – Pioneer Meenakshi College, Poovanthi	25.08.2011
13	Resource Person	Workshop on Image processing using MATLAB, SR. Naidu College, Sathur.	20th September 2012
14	Resource Person	One Day State Level Seminar on Science of Human Identification- Biometrics	29th September 2012
15	External Examiner- Ph.D	Bharathiyar University, Coimbatore	09.02.2013
16	Resource Person	Dept. Of Mathematics, Gandhi Gram Rural Institute,Gnadhigram	02.03.2013
17	Resource Person	Kaleeswari College, Sivakasi	26.07.2013
18	External Examiner – M.Phil	Mother Teresa University, Kodaikanal	16.08.2013

19	Resource Person	Fatima College, B.Com CA dept, Madurai	
20	Resource Person	SRNM, Sattur, Workshop on MATLAB	2015
21	Resource Person	V.V.V. College, Viruthunagar, Workshop on MATLAB	2016
22	Resource Person	NMSSVN College, Nagamalai	22nd sep 2017

## 22. SEMINAR/ SYMPOSIA / WORKSHOP/ CONFERENCE ATTENDED

S NO	NAME & LEVEL OF THE PROGRAMME	TITLE	PLACE	PERIOD
1.	Workshop	NAAC	Madurai	7 <sup>th</sup> Dec, 2002
2.	Workshop	EPR Spectroscopy and Imaging	Madurai Kamaraj University, Madurai	7 <sup>th</sup> Feb, 2003
3.	National Level Symposium	Current Trends in Image Processing and Algorithms	The American College, Madurai	Apr 22 <sup>nd</sup> 2006
4.	National Level Seminar (NAAC Sponsored))	Internal Quality Assurance System- Innovations And Initiatives	Fatima College	19 <sup>th</sup> - 20 <sup>th</sup> Feb-2008
5.	Workshop	Image Processing Research Tool	Kamaraj College of Engg & Tech, Virudhunagar	7 <sup>th</sup> -8 <sup>th</sup> Oct, 2009
6.	National Level Conference	New Horizons in Computational Intelligence and Information Systems	Gandhigram Rural Institute Deemed University, Dindigul	17 <sup>th</sup> & 18 <sup>th</sup> Dec 2015.
7.	National Level Conference	Soft Computing	Mangayarkarasi College of Arts & Science for women, Madurai	30 <sup>th</sup> Jan 2016.
8.	Workshop	Computational Intelligence:Recent Trends	JNTUH College of Engg, Hyderabad	25 <sup>th</sup> Sept, 2017
9.	UGC Sponsored National Level Seminar	Current Trends In Physics	Sri Meenakshi Government College for Women, Madurai	5 <sup>th</sup> Feb, 2020

## 23. SEMINAR/ SYMPOSIA / WORKSHOP CONDUCTED

S NO	NAME & LEVEL OF THE PROGRAMME	TITLE	PLACE	PERIOD
1.	National Level IQAC Seminar		Sri Meenakshi Government College for Women, Madurai	22 <sup>nd</sup> & 23 <sup>rd</sup> Feb-2010
2	National Level	Management	Government Arts	Apr 22 <sup>nd</sup> 2006

	Symposium	Information System	College for Women- Ramanathapuram	
3.	Workshop	Internet & MS Office for Govt. School Children	Sri Meenakshi Government College for Women, Madurai	
4	Workshop	Internet & MS Office for Govt Officials( Asst. Educational officers and Head Masters)	Sri Meenakshi Government College for Women, Madurai	
5	Blood Donation Camp	Tamil Nadu State AIDS control Society and State blood transfusion council	Sri Meenakshi Government College for Women, Madurai	
6.	Organising Secretary - National Level	National level UGC Sponsored Seminar on " Research issues in Computer Applications"	Sri Meenakshi Government College for Women, Madurai	8 <sup>th</sup> January 2011
7.	National Seminar	Artificial Intelligence and the Future of IT in Machine Learning Age	Sri Meenakshi Government College for Women, Madurai	1 <sup>st</sup> April, 2019

#### 24. INTERNATIONAL CONFERENCE / SEMINAR ATTENDED

S NO	NAME & LEVEL OF THE PROGRAMME	TITLE	PLACE	PERIOD
1	International Conference	Advances in Information Technology & Networking,	Dr. G.R. Damodaran College Of Science, Coimbatore	11 <sup>th</sup> Feb 2016.
2	International Seminar	Emerging Trends in Global Business	Nehru Memorial College, Trichy	16 <sup>th</sup> Feb 2016
3	International Conference	Big Data and Cloud	at Sri Adi Chunchanagiri Womens College, Cumbam	23 <sup>rd</sup> Feb 2016
4	International conference	Contemporary challenges in service sector and manufacturing sector	Excel Business School, komarapalayam	26.Feb.2016.
5	International Conference	Managing Disaster – A Strategic Perspective		29 <sup>th</sup> and 30 <sup>th</sup> Sep 2016
6	2 <sup>nd</sup> International Conference (ICCI)	Computational Intelligence:Recent	JNTUH College of Engg, Hyderabad	25 <sup>th</sup> Sept, 2017

	2017) , Springer	Trends		
7	International Conference	Emerging Trends in Multidisciplinary Research	Umar Pulavar Tamil Language Centre, Singapore	27 <sup>th</sup> -28 <sup>th</sup> Dec, 2017
8	International Conference	Data Analytics & Visualization	Mangayarkarasi College, Madurai	15 <sup>th</sup> Feb, 2018
9	International Conference	Applied Soft Computing Techniques	Kalasalingam Academy of Research & Education, Krishnankoil,	23 <sup>rd</sup> -24 <sup>th</sup> Mar, 2018
10	International Conference	Recent Trends in Engineering Science and Management	REVA University, Bengaluru	23 <sup>rd</sup> -24 <sup>th</sup> April, 2018
11	International Conference	Information Security Risks-Techno Legal Management	Vivekananda Institute of Professional Studies, Delhi	21 <sup>st</sup> -22 <sup>nd</sup> May, 2018
12	International Conference	Science, Technology & Management	Institution of Engineers, Chandigarh	9 <sup>th</sup> Dec 2018
13	International Seminar	Big Data Analytics	Madurai Kamaraj University	21 <sup>st</sup> Feb, 2019
14	International Conference (IEEE)	Advances in Information Technology	Adichunchanagiri Institute of Technology, Chikkamagaluru	25 <sup>th</sup> -27 <sup>th</sup> July, 2019
15	International Conference	Indexed by SCOPUS	TEST Engineering and management	March-April 2020
16	International Conference	IEEE	Vaigai College of Engineering, Madurai	May 2021
17	International Conference	IEEE	SCAD Engineering College, Tirunelveli	June 2021
18	International Seminar	International Seminar on Career Trends in IT Industry	Sri Meenakshi Government Arts College for Women	14 Dec 2021

## 25. EXTERNAL OBSERVER FOR AIEEE-ENTRANCE EXAMINATIONS

External Observer (AIEEE-Entrance Examination) Central Board of Secondary Education	Year	Center
	2010	Vijayawada
	2009	Chennai
	2007	Coimbatore

## 26. EXTERNAL EXAMINER

S.NO	External Examiner	Year	Center
1.	Question Setter and Examiner for valuation of Answer Books in TNPSC	2017	TNPSC office, Chennai

2.	Ph.D Thesis Evaluation Bharathidasan University Bharathiyar University		
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## 27. GUIDANCE FOR M.Phil

S.NO	NAME OF THE STUDENT	M.Phil	UNIVERSITY	YEAR
1.	K. Sankareswari	Multimodel Biometric Tool	Madurai Kamaraj University, Madurai	2010
2.	C. Suganya Devi	Data Mining	Madurai Kamaraj University, Madurai	2010
3.	M. Ramanujam	Data Mining	Madurai Kamaraj University, Madurai	2011
4.	R. Amutha	Training an Artificial Neural Network to Recognize the Facial Features of Human	Alagappa University karaikudi	2012
5.	M.Nivetha	Secured Attribute Systems Fine Grained Access Control In Cloud Computing	Mother Teresa Women's University, Madurai Centre, Madurai	2014
6.	S.Suvitha	Fovea Midpoint Exposure Based On Retina Analysis And Mathematical Morphology	Mother Teresa Women's University, Madurai Centre, Madurai	2014
7.	R. Gurulakshmi	Content Access For Authentication Using Biometric Security	Mother Teresa Women's University, Madurai Centre, Madurai	2014
8.	R.K.V.Svetha	Efficiency And Consistency Study On Online Association Rule Mining	Madurai Kamaraj University, Madurai	2014
8.	K.Geetha		Mother Teresa Women's University,	2014

			Madurai Centre, Madurai	
9.	M. Nivethitha		Mother Teresa Women's University, Madurai Centre, Madurai	2014
10.	V.Muthu Lakshmi		Mother Teresa Women's University, Madurai Centre, Madurai	2014
11.	Backyalakshimi		Sri Meenakshi Government College for Women, Madurai	2019
12.	Jeyachithra		Sri Meenakshi Government College for Women, Madurai	2019
13	A.Razeefa		Sri Meenakshi Government College for Women, Madurai	2019
14	U. T. Darshana		Sri Meenakshi Government College for Women, Madurai	2019
15	M. Francis	Matrix- Based Shoulder Surfing Security System	Madurai Kamaraj University Evening college	2021

## 28. GUIDANCE FOR Ph.D UNDER MADURAI KAMARAJ UNIVERSITY, MADURAI:

### Ph.D. Completed

S.No	Name	Title	Status
1.	T.Balaji	Classification of Objects in Remote Sensing images.	Awarded Ph.D(2016)MAY [16.05.2016]
2.	S. Kumar Chandar	Artificial Neural Network Models for Market Share Prediction in Business	Awarded Ph.D(2016)OCT

		Applications	
3.	S.Bharani Sethu Pandian	Reliable Cloud based secure Architecture for Organizations	Awarded Ph.D(2019) [19.09.2019]
4.	R.Barani	Simulation Based Algorithm for Image Fusion	Awarded Ph.D(2017)
5.	Pandikumar S	Prototypes Models for Energy efficient Smartphone Environment Developemnt.	Awarded Ph.D(2019)
6.	C.Mohan	Algorithms For magnetic Resonance Image Segmentation	Awarded Ph.D(2019) [19.09.2019]
7.	A.R.Visagan	A Framework For Software Quality Enhancement Through Data Mining	Awarded Ph.D(2021) [13.03.2021]
8	T. Sujithra	P4429-Id based signcryption for data security using cryptography in cloud environment	Awarded Ph.D (2022) [18.05.2022]
9	N.G.S.Parameswaran	P3590- Security in Enterprise cloud adoption framework using Elastic cloud	Awarded Ph.D (2023) [07.06.2023]

#### YET TO BE COMPLETED

S.NO	NAME OF THE STUDENT	Ph.D	YEAR
1	S. Ashika Parvin	F10277-A Novel Approach To Explore People's Affiliation To Products Using Sentimental Analysis	2020
2.	C.Sulochana	Machine Learning Approaches for Predicting Susceptibility Stages in Oral Cancer	2022
3.	G.B.GovindaPrabhu	MKU23PFOS10909-An Intelligent Identification Model and Alarming System for detecting Indian Bison (gaur) Using Artificial Intelligence and Object Detection Methods	2023
4.	B.G. Prem	MKU23PFOS11094-Developing Adaptive Learning Systems and Improving Assessment and Evaluation for Special need Students using Machine Learning	2023
5.	R.Mahalakshmi Priya	MKU23FFOS11116-Microorganisms Identification and Classification System based on Image Processing and Deep Learning	2023

**29. OTHER RESPONSIBILITIES HOLD IN SERVICE (CURRENT/ PREVIOUS):**

S.NO	NAME OF THE SERVICE/COMMITTEE	PLACE	PERIOD
1.	CBCS/IQAC Cell	Sri Meenakshi Govt College (w), Madurai	2008- 2010
2.	Discipline Committee	-do-	
3.	Carrier Guidance Committee	-do-	2008
4.	Examination Chief Superintendent	-do-	Nov 2008
5.	Extension Activity (UG &PG)Workshop on Internet to Govt. School Students and school officials	-do-	2009-10
6.	Tech Blog 08 & 09	-do-	2007-09
7.	Board of Studies(PG)	-do-	From 2008
8.	Placement Cell	-do-	2009-2011
9	Blood Donation Camp	-do-	September 2010
10.	Sports Committee	-do-	2003- 2004
11.	Rotract Club	-do-	2010-2011
12	Autonomy Member Secretary - for UGC Assistance	-do-	2010-2014
13	RUSA Coordinator	-Do_	From 2019
14	Head of the Department	-do-	From 2015
	E governance Coordinator		

**30. OTHER RESPONSIBILITIES HELD IN OTHER INSTITUTIONS:**

S.NO	NAME OF THE SERVICES/COMMITTEE	PLACE	PERIOD
1.	Advisory Committee Member –MCA Dept	N.M.S.S.Vellaisamy Nadar College, Madurai -19	From 2009
2.	Board of Studies- <b>University Nominee</b> MS IT & MS(IT&M), BCA,MCA,B.Sc	1. Arul Anandar College 2.Fatima College 3.S.V.N.college,Madurai 4. ANJA College, Sivakasi 5. Fatima College,Madurai 6. Madura College,Madurai 7. SR Naidu College, Sattur. 8.Hajee Karutha Rowther Howdia College, Uthamapalayam	2002-2004 2007-2009 2010-2012 2012-2014 2012-2014 2013-2015 2012-2014 2013-2015

		9. The Standard Fireworks Rajaratnam College for women,Sivakasi 10. Subbalakshmi Lakshmiathy College, Madurai 11. Yadava College, Madurai 12. Yadava College Madurai 13. SFR College, Sivakasi 14.Fatima College, Madurai 15. Fatima College 16. Devanga Arts College(For Four Courses),Aruppukottai 17.G.T.N Arts college,Dindigul 18.E.M.G.Yadava College, Madurai 19. The Standard Fireworks Rajaratnam College for women,Sivakasi 20.Fatima College, Madurai 21.Mannar Thirumalai Naicker College, Madurai	2013-2015 2014-2016 2014-2016 2017-2019 2018-2019 2018-2020 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2019-2021 2021-2023 2021-2023
3.	Board of Studies- <b>Subject Expert</b> MS IT & MS(IT&M), BCA,MCA,B.Sc , M.Phil	1.Yadava College, Madurai 2. Yadava Ladies College, Madurai 3. American College, Madurai 4. SFR College,Sivakasi 5. Fatima College , Madurai 6. Lady Doke College, Madurai 7. VHNSN College, ViruthuNagar 8. SR Naidu College, Sattur. 9. ANJA College, Sivakasi 10. Fatima College , Madurai 11.Ayya Nadar Janaki Ammal College, Sivakasi 12.V.H.N.S.N. college, Virudhunagar 13. MKU Com.Appln 14. Kongu Arts College,Erode 15. Kongu Arts College,Erode	2008-2009 2009-2010 2008-2009 2008-2009 2004-2006 2010 -2011 2012-2014 2012-2014 2013-2015 2013-2015 2014-2016 2014-2016 2017-2019 2019-2021 2021-2022
4.	Academic Council Member	Madurai Kamaraj University, Madurai	2019-2022
5.	Inspection Committee	Fatima College, Madurai	2019-2020

### 31. PATENT PUBLISHED:

S.No	Inventors	Patent No.	Title	Status
1.	Dr.M.Sumathi, G.B.GovindaPrabhu R.Mahalakshmi Priya	202341062436	EXAM SENTINEL: AN INNOVATING STAFF ALLOCATION SYSTEM FOR INVIGILATION	Published [Oct,2023]

