

Faculty Profile



1. Name of the faculty with Qualification : **Dr. D.MANIMEGALAI,M.E.,Ph.D**
2. Age & Date of birth : 58 & 11-3-1963
3. Designation : Professor
4. Experience in NEC : 34 Years
(With joining Date in NEC) 15.07.1987
5. Area of Expertise : Image Processing
6. Name of the Courses handled for the last 10 years (2011-12 to 2020-21) :

	2015-16	2014-2015	2013-2014	2012-2013	2011-2012
Course	1. Introduction to Engineering 2. Software Testing	1. Software Project Management 2. Pervasive Computing	1. Digital Image Processing 2. Mobility Engineering	1. Professional Ethics in Engineering 2. Software Testing	1. Professional Ethics in Engineering 2. Environmental Science & Engineering
	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	1. Introduction to Engineering 2. Professional Ethics and Human values 3. Compiler Design	1. Software Testing 2. Project Management And Finance	1. Introduction to Engineering 2. Software Testing lab 3. Software Quality Assurance	1. Software Testing 2. Software Testing Lab 3. Operating Systems Lab	1. Software Testing 2. Software Testing Lab 3. Operating Systems

7. **Research Area** : Image Processing
- Ph.D work and publications** : Texture Analysis using Fuzzy Logic and Symbolic Object based Approaches and its Applications

Publications:

Sno	Title of the paper	Authors	Journal	Pages Year
1.	Quantitative fuzzy measures for threshold selection	K. Ramar S. Arumugam S.N. Sivanandam L. Ganesan Dr.D.Manimegalai	Pattern Recognition Letters	International Volume 21, Issue-1, January 2000
2.	Edge Detection of Textured Images Using Symbolic Object Approach	Dr.D.Manimegalai	AMSE, France	International Volume 46, No -2, 2003
3.	Comparison of enhanced AES hardware with DES and T-DES	Dr.D.Manimegalai	Journal of Emerging Technologies	National (3(2): 1.6.2008)
4.	VLSI Implementation	G.Rajakumar,	Journal of	International

	of ANN for Handwritten Digit Recognition	Dr.D.Manimegalai	Technological World	Volume XI, Issue-10, October 2009
5.	Scheduling jobs on computational grid using Differential Evolution algorithm	S.Selvi Dr. D.Manimegalai	Proceedings of the 12th WSEAS 2010	Proceedings of the 12th WSEAS international conference on Networking, VLSI and signal processing
6.	Analysis of AES hardware and software implementation	R.Velayutham Dr. D.Manimegalai	Oriental Journal of Computer Science and Technology	International (3(1) : 83-88.2010) Impact Factor is 0.576
7.	Replacing Various Analog Signal Sensors with Digital Cameras	A. Justin Diraviam, S. P. Victor, G. Rajakumar, K. Rajappan Dr.D. Manimegalai	International Journal of Computer and Electrical Engineering	International Vol.3, No.1, February 2011,pp 84-93. Impact factor 0.484
8.	Performance Comparisons of Routing Protocols in Mobile Ad Hoc Networks.	P. Manickam T. Guru Baskar M.Girija Dr.D.Manimegalai	International Journal of Wireless & Mobile Networks (IJWMN).	International Vol. 3, No. 1, February 2011, pp 98-106.
9.	An Adaptive Region Based Color Texture Segmentation Using Fuzzified Distance Metric	G. Uma Maheswari K. Ramar, Dr.D. Manimegalai V. Gomathi	Journal of Applied Soft Computing, ELSEVIER Publishers	International-2011 Impact Factor: 2.468
10.	Efficient Job Scheduling on Computational Grid with Differential Evolution Algorithm	S.Selvi Dr. D.Manimegalai Dr.A.Suruliandi	Intrenational Journal of Computer Theory and Engineering	International Vol.3, No.2, April, 2011 of IJCTE The latest Impact Factor is 0.576
11.	Query Based Text Document Clustering Using its Hypernymy Relation	Ms.S.Vijaylakshmi Dr. D.Manimegalai	International Journal of Computer Applications	Pp 13-16 Vol 23, No. 1 June 2011
12.	Complex Background and Foreground Extraction in Color Document Images Using Interval Type – 2 Fuzzy	P.Murugeswari Dr. D.Manimegalai	International Journal of Computer Applications	Pp 6-9 Vol 25, No.2 July 2011
13.	Enhancing Confidentiality and Integrity in IEEE 802.11i Wireless Networks using AES-CCMP	R.Velayutham Dr. D.Manimegalai	European Journal of Scientific Research	Pp 117-124 Vol. 55 No.1 2011
14.	The Curve let approach for demising	Ms.D.Mary Sugantharathnam	International Journal of Computer	pp36-42 Vol. 29

	in various imaging modalities using different shrink age rules	Dr.D.Manimegalai	Application	No.7 Sep 2011
15.	A Review of Data mining Classification Techniques Applied for Diagnosis and Prognosis of the Arbovirus-Dengue	A. Shameen Fathima Nisar Hundewale Dr.D.Manimegalai	International Journal of Computer science issues (IJCSI)	Pp 322-328 Vol.8, Issue 6, No.3 Nov 2011
16.	An analysis of MIPS Group based Job Scheduling Algorithm with other Algorithms in Grid Computing (comp)	Ms.S.Gomathi Dr. D.Manimegalai	International Journal of Computer science issues (IJCSI)	Vol. 8, Issue 6, Pp 335-340. Nov 2011
17.	An adaptive region based colour texture using similarity measure of symbolic object approach	Dr.G.Uma maheswari Dr. D.Manimegalai Dr.K.Ramar	International journal of signal processing, image processing, and pattern recognition	Vol. no. 4, pp-66-76 Dec 2011
18.	Predictive Analysis for the Arbovirus – Dengue Using SVM Classification	A. Shameen Fathima Nisar Hundewale Dr.D.Manimegalai	Internal Journal of Engineering and Technology	Vol 2, No.3 Mar 2012
19.	A Novel Skin Tone Detection Using Hybrid Approach by New Color Space	Ms.C.Prema Dr. D.Manimegalai	International Journal of Computer Applications	15-19 Vol 46, No.7 May 2012
20.	Survey of Skin Tone Detection Using Color Spaces	Ms.C.Prema Dr. D.Manimegalai	International Journal of Applied Information Systems (IJAIS)	18-25 Vol 2, No.2 May 2012
21.	An Efficient Approach to Locate Optic Disc Center, Blood Vessels and Macula in Retinal Images	Dr.D.Manimegalai Dr.D.Santhi	Biomedical Engineering: Applications, basic and communications	1-10 Vol 24, No.5 Oct 2012
22.	Symmetric Key Management for Mobile Ad hoc Networks using Novel Secure and Authenticated Key Distribution Protocol	A.Jegatheesaan Dr.D.Manimegalai	European Journal of Scientific Research	Volume88 No 3 pp 334-345 Oct 2012
23.	Energy Efficiency in Visual Sensor Networks: A Survey	Mr.G.Aravind Swaminathan Dr.D.Manimegalai	European Journal of Scientific Research	Volume86 No 4, pp 685-693 Sept 2012
24.	A novel approach in	N.Suresh	International journal	Volume31

	cost estimation based on Algorithmic Model	Dr.D.Manimegalai	of Computer Trends and Technology	Issue 5, pp 502-508 Sept 2012
25.	Color Textured Image Segmentation Using ICICM - Interval Type-2 Fuzzy C-means Clustering Hybrid Approach	P.Murugeswari Dr.D.Manimegalai	Engineering Journal	Volume 16 Issue 5 pp115 - 126, 2012 Annexure II
26.	A probability based relevance frequency measure for centroid based text classifier	Dr.D.Manimegalai	European Journal of Scientific Research	Volume96 No 1 February, 2013 pp 334-345 Impact Factor: 0.75 Annexure II
27.	Semantic Similarity Measures on Different Ontologies: Survey and a Proposal of Cross Ontology based Similarity Measure	D.Jayashri Dr.D.Manimegalai	International Journal of Science and Research (IJSR),	Volume 2 Issue 2, pp 455-461 Feb 2013
28.	Design and VLSI Implementation of DIP Based Rod Quality Inspection	G.Raja Kumar Dr.D.Manimegalai	International journal of Advanced Research in Computer Engineering and Technology	Volume 2 Issue 3, pp 891-896 March 2013
29.	Wavelets and Ridgelets for Biomedical Image Denoising	D.Mary sugantha Rathnam B.Ganapathy Ram Dr.D.Manimegalai	WSEAS Transactions on Systems	Volume 12 Issue 3, pp 165-178 March, 2013
30.	Optimum coefficients of Discrete orthogonal Tchebichef moment Transform to improve the performance of image compression	Ms.A.H. Ragamathunisa Begum Dr.A.Abudhahir Dr.D.Manimegalai	Malaysian Journal of Computer Science	Vol. 26 No: 1, pp 60-75 2013
31.	VLSI Implementation of DIP Based Edible Oil Adulteration Identification	G.Raja Kumar Dr.D.Manimegalai	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 3, Issue 5, May 2013 pp 771-777
32.	Secured Routing with Authentication in Mobile AD HOC Networks	T.Guru baskar Dr.D.Manimegalai	Journal of computer science , Science Publications	Volume 9 No .3 May, 2013 pp 439-448
33.	Intelligent Models Creation for cost estimation using Clustering techniques	N.Suresh Dr.D.Manimegalai	International Journal of Engineering Trends and Technology	Volume 4, Issue 6, June 2013 pp 2350-2355

34.	Keyword search parser using encrypted text in Grid Computing Architecture	Ms.S.Gomathi Dr. D.Manimegalai	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 3, Issue 7, July 2013 pp 771-777
35.	A Document Level Measure for Text Categorization	V.Mary Amala Bai Dr.D.Manimegalai	International Review on Computers and Software	Volume 8, No 6 June, 2013 pp 1374-1381
36.	An efficient cross ontology-based similarity measure for bio-document retrieval system.	D.JAYASRI Dr.D.Manimegalai	Journal of Theoretical & Applied Information Technology.	Vol. 53, Issue 2, Aug 2013, pp 245-255
37.	Segmentation, Modeling and 3D Reconstruction of Brain Tumors	A.Sakthi Bharathi Sanjeev Kubakaddi Dr.D.Manimegalai	Jokull Journal	Volume 63 No .9 Sep, 2013 pp 316-329
38.	A highly adaptive fault tolerant routing protocol for energy constrained mobile ad hoc networks.	P.Manickam Dr. D.Manimegalai	Journal of Theoretical & Applied Information Technology.	Vol. 57, Issue 3, Nov 2013, pp 388-397
39.	Q-Back-Pressure Algorithm in Visual Sensor Networks to Achieve Energy Efficiency through Delay Reduction	Mr.G.Aravind Swaminathan, Dr. D. Manimegalai Ms.S.Kalyani	ARPN Journal of Engineering and Applied Sciences	Vol.10, No.9 ISSN 1819-6608
40.	Reduction of linear effects using CSRZ-DQPSK in WDM-PON for Long haul Optical Communication	Mr.L.Jerart Julius, Dr.D.Manimegalai	International Journal of Applied Engineering Research	Vol.10, No.70, ISSN 0973-4562
41.	Enhancing Energy Efficiency in Visual Sensor Networks through Actor Node	Mr.G.Aravind Swaminathan Dr.D.Manimegalai Ms.S.Murugeswari	International Journal of Applied Engineering Research	Vol 10, No 2, pp. 2279-2290
42.	Adaptive color image Steganography using Intra Color Pixel value differencing	Ms.C.Prema Dr. D.Manimegalai	Australian Journal of basic and Applied Science	Vol. 8 Issue 3, p161 Mar 2014
43.	Mining Scematic Patterns in Cricket Videos Using Fuzzy Based Classification	Ms.D. Pushpa Ranjini Dr. D.Manimegalai	Asian Journal of Information Technology	Volume: 13 Issue: 3 Page No.: 112-118 2014
44.	Removal of Poisson Noise in Medical Images using FDCT Integrated with	Ms.D.Mary Sugantharathnam Dr.D.Manimegalai	Biomedical Engineering: Applications, Basics and Communications	Vol. 26, No. 6, ISSN : 10162372 2014

	RUDIN-OSHER-FATEMI Model			
45.	Fusion of Color and Modified Weber's Law Descriptor based Human Skin Detection	Ms.C.Prema Dr. D.Manimegalai	Journal of Computer Science	Vol:10 No: 9 pp:1680-1691, 2014 ISSN: 1549-3636 2014
46.	A highly adaptive fault tolerant routing protocol for energy constrained mobile ad hoc networks.	P.Manickam Dr. D.Manimegalai	Journal of Theoretical & Applied Information Technology.	Vol. 57, Issue 3, Nov 2013, pp 388-397
47.	Text Document Clustering with Flocking Algorithm using Specific Crimes Judgement Corpus	Ms.S.Vijaylakshmi Dr. D.Manimegalai	Asian Journal of Information Technology	Volume: 13 Issue: 3 Page No.: 21-28 2014
48.	Keyless cryptography in grid computing using cyclic shift transposition algorithm	Ms.S.Gomathi Dr. D.Manimegalai	Journal of Theoretical & Applied Information Technology	Vol. 63 No.1 May 2014 Pp 112-118
49.	Diagnosis of diabetic retinopathy by exudates detection using clustering techniques	Ms.D. Santhi Dr.D. Manimegalai Ms.S. Karkuzhali	Biomedical Engineering: Applications, Basics and Communications	Vol:26 Issue 06 December 2014
50.	Denoising Various Imaging Modalities using Wavelets, Ridgelets and Curvelets: A Comparative Analysis	Ms.D.Mary Sugantharathnam Dr.D.Manimegalai	International Journal on Intelligent Electronic System	Vol. 9 No. 1. January 2015
51.	Segmentation and Localization of Optic Disc using Feature Match and Medial Axis Detection in Retinal Images	Ms.K. Pradhepa Ms.S.Karkuzhali Dr.D.Manimegalai	Biomedical & Pharmacology Journal	Vol. 8 No: 1 Pp: 391-397 2015
52.	Effective Segmentation of Optic Disc in Retinal Images for Diagnosing Eye Diseases that leads to Blindness	Ms.S.Karkuzhali Dr.D.Manimegalai Dr.D.Santhi	Biomedical & Pharmacology Journal	Vol. 8 No: 1 Pp: 427-434 2015
53.	Task Scheduling using Two-Phase Variable Neighborhood Search Algorithm on Heterogeneous Computing and Grid Environments	Ms.S.Selvi Dr. D.Manimegalai	Arabian Journal for Science and Engineering	Vol. 40, No.3, ISSN 1319-8025 2015
54.	Analysis of Significant	Ms.A.Shameem Fathima	International Journal	Vol.6,

	Factors for Dengue Infection Prognosis Using the Random Forest Classifier	Dr. D.Manimegalai	of Advanced Computer Science and Applications	No. 2, Pp 240 – 245 2015
55.	3d Digital reconstruction Of Brain Tumor From MRI Scans Using Delaunay Triangulation And Patches	A.Sakthi Bharathi Dr.D.Manimegalai	ARNP Journal of Engineering and Applied Sciences	ISSN 1819-6608 Vol. 10, no 1, November, 2015, pp. 9227 -9232
56.	Regional atrophy analysis of Alzheimer brain magnetic resonance images using local texture patterns	A.Sakthi Bharathi Dr.D.Manimegalai	ARNP Journal of Engineering and Applied Sciences	ISSN 1819-6608 Vol. 11, no 20, , pp. 474 -478, January, 2016
57.	Enhance Estimation results using Neuro Fuzzy modeling techniques & black box adaption	N.Suresh Dr.D.Manimegalai	SSRG International Journal of Computer Science and Engineering	Vol: 3 No: 5 May 2016
58.	Enhanced Cooperative spectrum sensing in CRAHNS using Distributed Dynamic load balanced clustering scheme	R.Muthukkumar Dr.D.Manimegalai	Wireless Personal Communications	DOI: 10.1007/s11277- 016-3566-4
59.	Segmentation and Classification of bright lesions to diagnose diabetic retinopathy in retinal images	D.Santhi Dr.D.Manimegalai S.Parvathi S.Karkuzhali	Biomedical Engineering / Biomedizinische Technik	Vol: 61 No: 4 August 2016
60.	Multiresolution Transform based image denoising and fusion for Poisson noise suppression	Ms.D.Mary Sugantharathnam Dr.D.Manimegalai T.Jayasree	International Journal of Biomedical Engineering and Technology	Accepted
61.	DAG Scheduling in Heterogeneous Computing and Grid Environments Using Variable Neighborhood Search Algorithm	S.Selvi Dr.D.Manimegalai	Applied Artificial Intelligence	April 2017
62.	Enhanced Cooperative Spectrum Sensing in CRAHNS Using Distributed Dynamic Load-Balanced Clustering	Dr.D.Manimegalai R.Muthukkumar	Wireless Personal Communication	Aug 2016

	Scheme			
63.	Enhanced Cooperative Spectrum Sensing in cognitive radio ad hoc networks using priority-based two-stage detection model	Dr.D.Manimegalai R.Muthukkumar	Wireless Networks	May 2017
64.	Predicting membrane protein types using various decision tree classifiers based on various modes of general PseAAC for imbalanced datasets	E.Siva Sankari Dr.D.Manimegalai	Journal of Theoretical Biology	Sept 2017
65.	Computational Intelligence based decision support system for glaucoma detection	Ms.S.Karkuzhali Dr.D.Manimegalai	Biomedical Research	Vol: 28 No: 11, 2017
66.	Retinal haemorrhages segmentation using improved toboggan segmentation algorithm in diabetic retinopathy images	Ms.S.Karkuzhali Dr.D.Manimegalai	Biomedical Research	ISSN 0970-938X
67.	Splat feature extraction to segment retinal hemorrhages in Diabetic Retinopathy images	Ms.S.Karkuzhali Dr.D.Manimegalai		Chapter 23
68.	Microaneurysms Identification using Computational Intelligence approach in Two Dimensional Fundus Images for detection of Diabetic Retinopathy	Ms.S.Karkuzhali Dr.D.Manimegalai	International Journal of Pure and Applied Mathematics	Volume 118 No. 8 2018, 485-491
69.	Detection of Hemorrhages in Retinal Images using Hybrid Approach for Diagnosis of Diabetic Retinopathy	Ms.S.Karkuzhali Dr.D.Manimegalai	International Journal of Pure and Applied Mathematics	Volume 118 No. 18 2018, 2841-2846
70.	Predicting membrane protein types by incorporating a novel feature set into Chou's general PseAAC	E.Siva Sankari Dr.D.Manimegalai	Journal of Theoretical Biology	July 2018
71.	FBMC-based dispersion compensation using artificial neural network	L.Jerart Julius Dr.D.Manimegalai	International Journal of Wavelets, Multiresolution and	April 2019

	equalization for long reach passive optical network		Information Processing	
72.	Distinguishing proof of diabetic retinopathy detection by hybrid approaches in two dimensional retinal fundus images	Dr.S.Karkuzhali Dr.D.Manimegalai	Journal of medical systems	April 2019
73.	Distinguishing Proof of Diabetic Retinopathy Detection by Hybrid Approaches in Two Dimensional Retinal Fundus Images	Dr.S.Karkuzhali Dr.D.Manimegalai	Journal of Medical Systems	May 2019
74.	Robust intensity variation and inverse surface adaptive thresholding techniques for detection of optic disc and exudates in retinal fundus images	Dr.D. Manimegalai	Biocybernetics and Biomedical Engineering	Jul. 2019
75.	Distributed Coalition Formation Game for Enhancing Cooperative Spectrum Sensing in Cognitive Radio Ad Hoc Networks	R. Muthukkumar Dr.D. Manimegalai	IET Networks	Jan. 2020
76.	Secured transmission using trust strategy-based dynamic Bayesian game in underwater acoustic sensor networks	R. Muthukkumar Dr.D. Manimegalai	Journal of Ambient Intelligence and Humanized Computing	Aug. 2020

8. Progress after Ph.D :

- Recognized Supervisor for Ph.D/M.S programme in Anna University, Chennai, MS University, Tirunelveli, and Bharadhiyar University, Coimbatore.

9. Details of Project guided (BE and ME) : List with outcomes

Sno	Degree	Title of the Projects	Outcomes International/national conference
1.	Ph.D	Microaneurysms Identification using Computational Intelligence approach in Two Dimensional Fundus Images for detection of	(ICACSET'18) January 2018

		Diabetic Retinopathy	
2.	Ph.D	Detection of Hemorrhages in Retinal Images using Hybrid Approach for Diagnosis of Diabetic Retinopathy	(ICACSET'18) January 2018
3.	M.E	Angle Closure Glaucoma Detection using Ranking Techniques and Adaboost Classifier	ICONSTEM – IREES'16 30.03.2016 Jeppiar Engineering College
4.	M.E	Lung Cancer Detection using CBIR Features and Classifier	ICONSTEM – IREES'16 30.03.2016 Jeppiar Engineering College
5.	M.E	Segmentation of Micro aneurysms and Hemorrhages in Retinal Images - A Survey	DIGNATE 2014 1 8.10.2014 To 19.10.2014 India International Centre, New Delhi
6.	M.E	Digital Image Processing Techniques for Glaucoma Detections - A Review	DIGNATE 2014 18.10.2014 To 19.10.2014 India International Centre, New Delhi
7.	M.E	Segmentation of Retinal Hemorrhages Using Splat Feature Extraction	International Conference on Advancements in Engineering and Technology Achariya College of Engineering Technology
8.	M.E	Segmentation and Localization of Optic Disc using Feature Match and Medial Axis Detection in Retinal Images	International Conference on Innovations in Information Embedded and communication systems 19.03.2015 to 20.03.2015 Karpagam College of Engineering
9.	M.E	Exudates based non-proliferative OR detection in Retinal Images	ENIAC'14 8-1-2014 to 10-1-2014 National Engineering college, Kovilpatti
10.	M.E	Unsupervised Color,Texture segmentation using Fuzzified distance metric	ENIAC'14 8-1-2014 to 10-1-2014 National Engineering college, Kovilpatti
11.	M.E	An Efficient Reinal Small Blood vessel segmentation using hysteresis thresholding	ENIAC'14 8-1-2014 to 10-1-2014 National Engineering college, Kovilpatti
12.	M.E	Multi Person Tracking – by Detection Using a Detector Confidence Particle Filter	ICETC'12
13.	M.E	Neural network based automatic detection of Brain Hemorrhage in CT images using textural features	ICACT 2013
14.	M.E	Automatic detection of tumor subtype in Mammograms based on GLCM and DWT features using SVM	ICICTS'13
15.	M.E	Non Technical Losses Identification & Prediction in Power Utilities Using GASVM	Emerging Trends in Computer & Communication Technologies – EMICS'12,
16.	M.E	System For Detection of Fraud in Electricity Consumption Using Support Vector Machine	Emerging Trends in Computer & Communication Technologies –

			EMICS'12,
17.	M.E	Group Event Detection Using Asynchronous Hidden Markov Model for Video Surveillance	EMICS'12
18.	M.E	Minutiae And Ridges Extraction of Touchless Fingerprint Images Using Thin Plate Spline Model	EMICS'12
19.	M.E	Recognition of Optic Disc Center from retinal images using Matched Filter for Early Diagnosis of Diabetic retinopathy	NCVIT'11
20.	M.E	An Automated method for Early Detection of Diabetic Retinopathy	IIST 2011
21.	M.E	A Novel Watermarking Scheme Using human Visual System for Protecting Copyrights of Digital images	NCRTIT'11
22.	M.E	Bimodal Biometric Authentication System Using Ranking Technique	ACENET'11

10. Research Publication details : 10

List of faculty publications along with date of issues DOIs and publication/SCI impact factor details for the last 5 years (2011-12 to 2015-16)

Separate list for national and international journals and conferences.

Sno	Title of the paper	Authors	Journal	Pages Year	SCI Impact factor
1.	Task Scheduling using Two-Phase Variable Neighborhood Search Algorithm on Heterogeneous Computing and Grid Environments	Ms.S.Selvi, Dr. D. Manimegalai	Arabian Journal for Science and Engineering	Vol. 40, No.3, ISSN 1319-8025	0.367
2.	Reduction of linear effects using CSRZ-DQPSK in WDM-PON for Long haul Optical Communication	Mr.L.Jerart Julus, Dr.D.Manimegalai	International Journal of Applied Engineering Research	Vol.10, No.70, ISSN 0973-4562	3.233
3.	Q-Back-Pressure Algorithm in Visual Sensor Networks to Achieve Energy Efficiency through Delay Reduction	Mr.G.Aravind Swaminathan, Dr. D. Manimegalai, Ms.S.Kalyani	ARPN Journal of Engineering and Applied Sciences	Vol.10, No.9 ISSN 1819-6608	0.7763
4.	Removal Of Poisson Noise In Medical Images Using Fdct Integrated With Rudin-Osher-Fate mi Model	Ms.D.Mary Sugantharathnam, Dr. D. Manimegalai	Biomedical Engineering-Applications, Basis and Communications	Vol. 26, No. 6, ISSN : 10162372	0.233

5.	Diagnosis Of Diabetic Retinopathy By Exudates Detection Using Clustering Techniques	Ms.D.Santhi, Dr. D. Manimegalai, Ms.S.Karkuzhali	Biomedical Engineering-Applications, Basis and Communications	Vol. 26, No. 6, ISSN : 10162372	0.233
6.	Adaptive color image Steganography using Intra Color Pixel value differencing	Ms.C.Prema, Dr. D.Manimegalai	Australian Journal of basic and Applied Sciences	Vol.8, No. 3, ISSN : 1991 - 8178	0.425
7.	Optimum coefficients of discrete orthogonal tchebichef moment transform to improve the performance of image compression	Ms.A.H. Ragamathunisa Begum, Dr. D. Manimegalai, Dr.A.Abudhahir	Malaysian Journal of Computer	Vol. 26 No:1	0.405
8.	Wavelets and Ridgelets for Biomedical Image Denoising	Ms.D.Mary sugantha Rathnam, Dr. D. Manimegalai, Mr.B.Ganapathy Ram	WSEAS Transactions on Systems	Vol. 12, No. 3 ISSN : 11092777	-
9.	An efficient approach to locate optic disc center, blood vessels and macula in Retinal images	Ms.D.Santhi, Dr. D. Manimegalai	Biomedical Engineering-Applications, Basis and Communications	Vol. 24, No.5 ISSN : 10162372	0.233
10.	An Adaptive Region Based Color Texture Segmentation Using Fuzzified Distance Metric	Ms.G.Uma Maheswari, Dr.K.Ramar, Dr. D. Manimegalai, Ms.V.Gomathi	Applied soft computing	Vol. 11, No. 2 ISSN : 1568-4946	2.810

11. Details of R&D Projects : **Completed** / Ongoing Projects/ status and outcomes

S.No	Project title	Funding agency	Investigator/ Co-Investigator	Total Grant	Status
1.	Diagnosis of Diabetic Retinopathy by feature extraction from Retinal images (2012 - 2015)	Indian Council of Medical Research (ICMR), New Delhi	Dr.D.Manimegalai	Rs.13,09,271	Completed

12. Faculty interaction with outside world :

SNo	Title	Place	Programme	Date
1.	Intellectual property rights and Innovations	NEC	Workshop	07.11.2015
2.	Image Processing Applications- A Research Perspective- Medical Image Segmentation	AICTE Sponsored @ Francis Xavier Engineering College	SDP	14.6.2013

3.	Satellite image Classification Techniques & its Research Issues	AICTE Sponsored @ Mepco Schlenk Engineering College	Seminar	25.5.2013
4.	Campus to Corporate	NEC	Awareness Programme	23.12.2012
5.	Cloud Computing and it's applications	PSR Engg. College, Sivakasi	Seminar	15.08.2012
6.	Etiquettes and Manners	NEC	Seminar	03.08. 2012

13. Professional society activities, events, conferences organized: 10

S.No	Name of the Conference	Venue & Date	Responsibility
1.	IGNITE'16	11.03.2016	Convenor
2.	NECSI'16	25.02.2016 & 26.02.2016	Convenor
3.	TECHNOVAZA'15	08.10.2015 & 09.10.2015	Convenor
4.	IGNITE'15	13.03.2016	Convenor
5.	NACCA'15	23.02.2015	Convenor
6.	NECSI'14	10.10.2014	Convenor
7.	IGNITE'14	21.03.2014	Convenor
8.	ENIAC'14	8.1.2014 To 10.1.2014	Convenor
9.	IGNITE'13	12.3.2013	Convenor
10.	ENIAC'12	12.10.2012	Convenor

14. FDP, Short term courses, workshops, seminar organized :18

S.No	Programme	Dates	Responsibility
1.	GE8151- Problem Solving And Python Programming	04.06.2018 to 11.06.2018	Convenor
2.	Data Science Research And Big Data Analytics	11.12.2017 to 23.12.2017	Convenor
3.	Two days Hands on Training on Embedded System Design using ARM & PIC Microcontroller	24.08.2015 to 25.08.2015	Convenor
4.	Workshop on Data Mining	10.10.2015	Convenor
5.	Workshop on IOT	10.03.2016	Convenor
6.	Workshop on Big data Analytics	14.12.2015	Convenor
7.	DST (NIMAT) Sponsored Entrepreneurship awareness camp during	19.01.2015 to 21.01.2015	Convenor
8.	DBT Sponsored seminar on Anna University sponsored FDTP on SOA ,	09.06.2015 To 16.06.2015.	Convenor
9.	Research Approaches and Contemporary Issues of Functional Genomics, Proteomics & Micro array biological Modeling using machine learning in Bioinformatics Applications”	13.11.2014 to 14.11.2014	Convenor

10.	Workshop on Android and Web Designing,	8.03.2014 to 9.03.2014	Convenor
11.	Workshop on Search Engine Optimization,	20.02.2014 to 21.02.2014	Convenor
12.	DST sponsored Entrepreneurship Awareness Programme,	22.01.2014 to 24.01.2014	Convenor
13.	Workshop on NS2	04.10.2013 05.10.2013 10.10.2013 14.10.2013	Convenor
14.	Workshop on Programming with MATLAB,	19.09.2013 to 20.09.2013	Convenor
15.	DBT sponsored Seminar on Cloud Computing	14.03.2013 to 15.03.2015	Convenor
16.	Android workshop during	Feb to March 2013	Convenor
17.	LATEX workshop	30.11.2012	Convenor
18.	Image processing using MATLAB	19.10.2012 to 20.10.2012	Convenor

15.FDP, Short term courses, workshops, seminar attended

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S.No	Title	Programme	Date	Venue
1.	GIAN Course – Advanced Pattern Recognition	FDP	26.03.2018 to 30.03.2018	Malaviya National Institute of Technology Jaipur.
2.	Intellectual property rights and Innovations	Workshop	07.11.2015	NEC, Kovilpatti
3.	17 th ISTE TN& P Section Annual Convention & Conferment of Life Time Achievement Awards-2014	National	07.11.2014 to 08.11.2014	ISTE TN& P Section & National Engineering College
4.	Women’s Worlds Congress	International	17.8.2014 to 22.8.2014	University of Hyderabad
5.	Formulation of Research & Development Initiatives for Women Scientists and Technologists	National	29.5.2014 to 01.6.2014	ESCI , ESCI Campus, Hyderabad
6.	INFOSYS campus connect Principal’s meet	Regional	24.2. 2014	INFOSYS & Mahendra City.
7.	AICTE Workshop on Women Empowerment	Workshop	11.11.2013	AICTE at TCE, Madurai

8.	NBA Workshop	Workshop	13.09.2013 26.09.2013 to 29.09.2013	TCE, Madurai
9.	CSI Annual Convention	Convention	1.10.2012 to 2.12.2012	CSI Kolkatta Chapter, Science City, Kolkatta.
10.	NBA Workshop	Workshop	12.07.2012	NBA at TCE, Madurai
11.	EMC Academic summit 2012 – Cloud meets Big data	Summit	10.02.2012	EMC at MSRIT, Bangalore
12.	Regional summit on Quality in Education	Regional	11.11.2011 to 12.11.2011	CII Coimbatore
13.	Cloud Computing and Virtualization	AICTE MHRD Sponsored STTP	12th to 18th July 2010	NITK, Surathkal
14.	Software Quality Management	National Seminar	9th to 10th Feb. 2007	NASSCOM National Engineering College
15.	Software Engineering Practices	Faculty training program	3rd to 4th March 2006	Accenture, Chennai.
16.	Educational Administration	UGC Sponsored Orientation Programme.	4th to 5th Feb. 2006	Jawaharlal Nehru Technological University, Hyderabad.
17.	Quality Oriented Technical Education	ISTE Sponsored National Seminar.	25th to 26th July 2003	National Engineering College, Kovilpatti.
18.	National workshop on Computer Vision, Graphics and Image Processing	IUPRAI & TCE	15 th to 16 th February 2002	TCE, Madurai
19.	Information Technology for Villages: A Dream and its Bottleneck.	All India Seminar on IT- Infotech2K	25 th Feb. 2000	Thiagarajar College Of Engineering, Madurai.
20.	Recent Trends in Advanced Computing	NCRTAC	11 th to 12 Feb. 2000	M.S.University

21.	Multimedia on the Move	AICTE Sponsored National Seminar	30th Oct to 1st Nov 1999	Shunmugha College of Engineering, Thanjavur.
22.	Internet & its Uses	CSE, Staff Development Programme.	17th May 1999	National Engineering College, Kovilpatti.
23.	Induction Training for Teachers	ISTE Chapter	14th to 16th Nov 1996	National Engineering College, Kovilpatti.
24.	Artificial Intelligence & Expert System	AICTE/ISTE Summer School	15th to 27th May 1995	J.N.T.U. College of Engineering, Anantapur.
25.	Ongoing Research area in Computer Science	FDP	2nd to 3rd March 1995	MS University, Tirunelveli.

Ph.D Scholars List

Completed:

Sl.No	Name of the Scholar	University	Year of Registration	Year of Completion	Internal / External
1.	D.Santhi	Anna university, Chennai	2007	2014	Internal
2.	S.Murugeswari	Anna university, Chennai	2007	2014	External
3.	D. Pushpa Ranjini	Anna university, Chennai	2007	2015	External
4.	R.Velayutham	Anna university, Chennai	2008	2013	External
5.	A.Jegatheesan	Anna university, Tirunelveli	2009	2014	External
6.	V.Mary Amala Bai	Anna university, Chennai	2009	2016	External
7.	A.Sakthi Bharathi	Anna University, Tirunelveli	2008	2017	External
8.	G.Aravind Swaminathan	Anna University, Tirunelveli	2012	2017	External

Sl.No	Name of the Scholar	University	Year of Registration	Year of Completion	Internal / External
9.	Ms.S.Gomathi	Anna university, Chennai	2009	2015	External
10.	D.Mary Sugantharathnam	Anna University, Tirunelveli	2009	2017	External
11.	M.Judith Leo	M.S. University	2009	2016	External
12.	C.Prema	M.S. University	2010	2015	External
13.	S.Selvi	M.S. University	2010	2016	External
14.	S.Vijayalakshmi	Bharathiyar University	2008	2017	External
15.	P.Manikkam	Bharathiyar University	2008	2017	External
16.	A.H.Ragmathunisa Begum	Anna University, Tirunelveli	2008	2017	External
17.	A.Shameem Fathima	M.S. University	2009	2017	External
18.	D.Jayashree	Bharathiyar University	2008	2017	External
19.	B.Meenakshisundaram	Bharathiyar University	2008	2017	External
20.	T.GuruBaskar	Bharathiyar University	2008	2018	External
21.	Mr.R.Muthukkumar	Anna university, Chennai	2014	31.08.2018	Internal
22.	S.Karkuzhali	Anna university, Chennai	2014	31.08.2018	Full Time
23.	N.Suresh	M.S. University	2010	11.02.2019	External
24.	E.Siva Sankari	Anna University, Tirunelveli	2011	2020	External
25.	L.Jerart Julus	Anna university, Chennai	2012	2021	Internal

Pursuing:

Sl.No	Name of the Scholar	University	Year of Registration	Status	Internal / External
1.	G.Pandiya Rajan	Anna university, Chennai	2017	Pursuing	Internal

2.	V.Anitha	Anna university, Chennai	2019	Pursuing	Internal
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