

Name :Dr.A.Shanthasheela M.C.A.,MPhil.,Ph.D,PGDCA,NET

Gender :Female

Designation :Assistant Professor

Department :Computer Science

M.V.Muthiah Government Arts College for Women

Dindigul-624001



Residential Address:5/1138 M.N.Nagar

Nandhavanapatty

Dindigul-624001

E-mail :shanthasheela.a@gmail.com

Phone no :9789434127

: 9789434127 (whatsapp)

Qualification :

| Degree | Branch | Institution/University | Year of Passing | Gold Medal & Distinction |
|--------|-----------------|---------------------------------|-----------------|--------------------------|
| Ph.D | ComputerScience | GRI-Deemed University | 2017 | Highly Commented |
| M.Phil | ComputerScience | Vinayaka Mission University | 2009 | First Class |
| M.C.A | ComputerScience | GRI-Deemed University | 2008 | First Class |
| B.Sc | ComputerScience | M.V.MuthiahGovt Arts College(W) | 2001 | First Class |

Ph.D. Details

| | | |
|---|-----------------------------|--|
| Title of Thesis Features-Based Classification Techniques ForLand Cover Analysis Of Satellite Images | | Area of Specialization Image Processing, Deep Learning |
| Research Supervisor | Research Institution | Year of Award |
| Dr.P.Shanmugavadivu | GRI-Deemed University | 2017 |
| Professor, | Gandhigram | |
| Department of Computer Science & Applications | | |

Additional Qualification:

| Name of the Course | Place of study | Date | Duration |
|----------------------------------|--------------------------------------|----------|----------|
| National Eligibility Test (NET) | - | - | Dec 2008 |
| PGDCA | DC Elcot Software Ltd | Aug 2002 | 1 year |
| Rastrabhasha Praveen B.A (Hindi) | Dhakshina Bharat Hindi Prachar Sabha | Jun 2000 | 3 years |

Work Experience (Only UGC Pay Scale)

| Name of Institution | Address of Institution | Designation | From | To |
|--|------------------------|---------------------|------------|----------------------|
| The H.H. Rajah's College(Autonomous) | Pudukkottai | Assistant Professor | 28.02.2011 | 08.08.2012 |
| Government Arts College(W) | Nilakkottai | Assistant Professor | 10.08.2012 | 03.02.2014 |
| M.V.Muthiah Government Arts College(W) | Dindigul | Assistant Professor | 05.02.2014 | Till date (15.08.19) |

Teaching/Research Experience (Total Experience in UGC PayScale)

| UG | PG | M.Phil | Ph.D |
|----------------|----------------|----------------|------|
| 9 yrs 4 months | 9 yrs 4 months | 5 yrs 6 months | |
| 1 yr 4 months | | | |

Research Supervisor

| Name of the University | No of Sanctioned students Uptake | Number of Students Registered | No of Scholar Completed VIVA VOCE | Vacancy |
|------------------------|----------------------------------|-------------------------------|-----------------------------------|---------|
| | | | | |
| | | | | |

| S.no | Table of Contents | * Total No |
|-------------|---|--|
| 1 | Guidance Details: | |
| | a) PG | 20 |
| | b) M.Phil. | 6 |
| | c) Ph.D. | - |
| 2 | Attended: | |
| | a) Conferences | 11 |
| | b) Workshops | 10 |
| | c) Seminar | 7 |
| 3 | Research paper Presented | |
| | a) Conferences | 15 |
| | b) Workshops | - |
| | c) Seminar | 3 |
| 4 | Publication in Journals | 14 |
| 5 | Books Published | - |
| | Edited | - |
| 6 | Organized: | - |
| | a) Conferences | - |
| | b) Workshops | - |
| | c) Seminar | - |
| 7 | Research Projects | - |
| | a) Major | - |
| | b) Minor | - |
| 8 | Resource Person | |
| | a) Invited Talk | 3 |
| | b) Guest Speaker | 2 |
| 9 | Awards Received | - |
| 10 | Patent | - |
| 11 | Extension activities Undertaken | - |
| 12 | Professional Membership | |
| | a) BOS Chairman | |
| | b) Academic council | |
| 13 | Coordinator for Academic activities (Home Institution) | 2 |
| 14 | Area of Interest (Academic) | Digital Image Processing, Deep learning |

Paper Published in Journals

- 1) A. Shanthasheela, K-Means Clustering Based Bi-Level Coarse Image Segmentation, IEEE Xplore, INSPEC – 11867431, 254- 259, 2010
- 2) A. Shanthasheela, Morphological Gradient Based Transformation Controlled Multilevel Edge Detector for Digital Images, Journal of Computer Applications, 4 (3): 81-84, 2011
- 3) A. Shanthasheela, Feature variance based filter for speckle noise removal, IOSR-JCE, 16 (5): 15-19, 2014
- 4) A. Shanthasheela, GLCM inertia Based Ultrasound image Enhancement, IJAER, RIP Publications, 10 (82): 613-617, 2015
- 5) A. Shanthasheela, Mathematical Dilation based Edge detection, MVM Journal, Vol. II. 187-192, 2017
- 6) A. Shanthasheela, A Generic Permutational Edge Detection Approach for Corrupted Images, International Journal of Computing Academic Research (IJCAR), 5 (1): 39-45, February 2016
- 7) A. Shanthasheela, Convolution Based Composite Edge Detector for Gray-Scale and Colour Images, International Journal of Scientific & Engineering Research (IJSER), 7: 897-900, 2016
- 8) A. Shanthasheela, Thin Cloud Removal using Normalized Intensity Mapping for satellite Images, IEEE XPLORE, 2017
- 9) A. Shanthasheela, A Novel Cinch Automatic Bone Fracture Detection Algorithm, International Journal of Computer Sciences and Engineering, 5 (8), pp. 1-5, 2017
- 10) A. Shanthasheela, A Study Of Bone Fracture Detection Algorithms, International Journal of Computer Engineering and Applications, 12 (1), 473-478, 2018
- 11) A. Shanthasheela, An Exploratory Analysis of Speckle Noise Removal Methods for Satellite Images, ACM, pp. 217-222, 2018
- 12) A. Shanthasheela, Analysis and Identification of Disease in Paddy Leaf, MVM Journal of Research, Vol. IV. 77-84, 2018
- 13) A. Shanthasheela, A Review On Plant Disease Detection Using Digital Image Processing, Journal of Analysis and Computation (JAC), Volume IV, Issue I & II, pp. 1-7, 2019
- 14) A. Shanthasheela and P. Shanmugavadivu, Cuckoo Search Based Forest Cover Classification, Journal of Computational and Theoretical Nanoscience, Volume 16, Issue Number 8, pp. 3550–3553

Paper Published in Seminar / Conference / Workshop

International Conference

1. A Generic Permutational Edge Detection Approach for Corrupted Images, First International Conference on Recent Trends and Challenges in Computational Models, University College of Engineering Tindivanam , ICRTCCM, pp. 39- 45, 2016.
2. Wavelet Based Speckle Filter, International Conference on Computational Intelligence and Big Data Analytics, Vivekanandha Institute of Information and Management Studies, Namakkal, Vol.I, pp. 126-130, 2015.
3. GLCM inertia Based Ultrasound image Enhancement, International Conference on Advanced Computing, Jamal Mohammed College, Trichy, ICAC, pp. 50, 2015
4. Modified Lee filter for speckle noise removal, OMBDA'14, International Conference on Opinion Mining for Big Data Analysis, St.Antony's Arts and Science College, Thamaraipadi, OMBDA, 2013.
5. K-Means Clustering Based Bi-Level Coarse Image Segmentation, International Conference on Communication and Computational Intelligence, Kongu Engineering College, Erode, Dec 27-29, 2010.
6. Thin Cloud Removal for satellite images using Normalized Intensity Mapping, ICECCT 2017, SVM College of Engineering, Coimbatore, Feb 2017
7. SWT and Morphological Based Cloud removal Technique for satellite image, International Conference on Internet of Things ICIOT-2017, Kodaikanal Christian College, Kodaikanal Sep 2017

National Conferences

1. Edge Oriented Segmented Window Based Adaptive Median Filter, National Conference on Information Systems, Technology and its Applications, A.V.C College of Engineering, Mayiladuthurai, CISTA, pp. 47-51, 2009.
2. Performance Analysis of Localized Texture-Based Decomposition using Gabor Filter, A.V.C College of Engineering, Mayiladuthurai, CISTA, pp. 67- 71, 2009.
3. Neighbourhood-Based Partitioned Adaptive Median Filter to Suppress Fixed-Value Impulse Noise in Digital Images, A.V.C College of Engineering, Mayiladuthurai, CISTA, pp. 72- 75, 2009.
4. Image Intensity Directed Region Growing based Segmentation, National Conference on Advanced Pattern Mining and Multimedia Computing, National Institute of Technology, Trichy, APMMC, pp.391-394, 2010.
5. Predicate Controlled Region Growing for Image segmentation, National Conference on Image Processing, Gandhigram Rural Institute, NCIM ,pp.61-64, 2010.
6. Brightness varying Normalized cut based Image Segmentation, National Conference on Image Processing, Gandhigram Rural Institute, NCIMP , pp.54-57, 2010.
7. Seeded Region Growing Based Image Segmentation, National Conference on Recent Trends in Computing Technologies, NPR College of Engineering and Technology, RTCT'11, pp.106-108, 2011.

8. Morphological Gradient Based Transformation Controlled Multilevel Edge Detector for Digital Images, ISTE Sponsored National Seminar on Research issues in Computer Science, KSR College of Engineering, Tiruchengode, NSRICS'11, pp.30, 2011.
9. Convolution filtering based edge detection of Grayscale and Colour images, National Conference on New Horizons in Computational Intelligence and Information Systems, Gandhigram Rural Institute-Deemed University, Gandhigram, NNHCIIS, pp.121-125, 2015.
10. Stationary Wavelet Based Transformation Based Cloud removal technique for satellite images, NCCMCTI 2017, Gandhigram Rural Institute Deemed University Gandhigram Jan 2017
11. A Study of bone fracture detection algorithms, NCDCM17, NPR Arts & Science College, Natham Dec 2017

Seminar / Conference / Workshop / Attended

| S.No | Name of the Seminar/ Conference/ Symposia / Workshop etc. | Name of the Sponsoring Agency | Place and Date |
|------|--|---|--|
| 1. | National Conference CISTA 09 | A.V.C College of Engineering | A.V.C College of Engineering, Mayiladuthurai, Oct. 09, 2009 |
| 2. | National Conference on Image Processing | UGC | Gandhigram Rural Institute, February 2010 |
| 3. | National Conference on Advanced Pattern Mining and Multimedia Computing | DST & Ministry of Defence | National Institute of Technology, Trichy, February 2010 |
| 4. | National Seminar on Applied Soft Computing | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, Feb 25,2010 |
| 5. | National Seminar on Vermitechnology, Use of Biofertilizers and Solid Waste Recycling for sustainable | Gandhigram Rural Institute | GRI, Gandhigram, Mar 23-24, 2010 |
| 6. | State level Seminar on Modern Trends of ICT in Teaching Technology | NPR College of Education | NPR College of Education, Dindigul, Jan 29, 2011. |
| 7. | National Seminar on Research issues in Computer Science | ISTE | KSR College of Engineering, Tiruchengode, Aug 30, 2011 |
| 8. | National Conference on Recent Trends in Computing Technologies | NPR College of Engineering | NPR College of Engineering and Technology, Mar 5, 2011. |
| 9. | National Workshop on Research Tools and Techniques in Computer Applications | UGC | Sri Meenakshi Government College for Women, Madurai, 14 Feb 2013 |
| 10. | Workshop on Yoga for Human Health and Peace | Curriculum Development Cell, MTWU | Mother Teresa Women's University Kodaikannal |
| 11. | Seminar on Quality Metrics in Higher Education | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 20.09.2014 |
| 12. | International Conference on opinion mining for BigData analysis | St.Antony's College of Arts & Sciences for Women & MTWU | St.Antony's College of Arts & Sciences for Women, 14.08.2014 |
| 13. | Workshop on Video Analytics | Indo-US 21 st Century Knowledge Initiative Program | National Institute of Technology, Trichy,27-28 Nov 2015 |

| | | | |
|-----|---|--|---|
| 14. | International Workshop on Image Processing with MATLAB | Computer Society of India, IEEE | Bharathidasan University Technology Park, Trichy, 31-Jul,1-Aug 2015 |
| 15. | National Workshop on MATLAB | UGC | M.V.M Govt. Arts College for Women, Dindigul, 25.02.2016 |
| 16. | National Conference on state of Art Enabling Technologies of Distributed Computing NCSEDC'16, | R.V.S College of Engineering, | R.V.S College of Engineering, Dindigul |
| 17. | International Workshop on Image Processing using MATLAB | MTWU | Mother Teresa Women's University Kodaikannal, 6-7 Oct 2016 |
| 18. | National Workshop on Data Analytics using R Tool | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 09.03.2018 |
| 19. | State Level Technical Workshop on Intellectual Property Rights | NPR Arts & Science College | NPR Arts & Science College, Natham, 20.01.2018 |
| 20. | State Level Workshop on Python | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 04.10.2018 |
| 21. | International Conference on Emerging Trends and Challenges | NPR Arts & Science College | NPR Arts & Science College, Natham, 28.12.2018 |
| 22. | International Workshop on CLOUD for Educational Institutions | MTWU | Mother Teresa Women's University Kodaikannal, 22-23.06. 2018 |
| 23. | State Level Seminar on Creating free Blogs/ Websites in Wordpress Domain | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 13.02.2019 |
| 24. | Seminar on Intellectual Property Rights | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 09.03.2019 |
| 25. | Faculty Development Programme on Challenges and Changes in Revised NAAC Framework | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 09.03.2019 |
| 26. | International Conference on Emerging Trends in IOT & Machine Learning | Mangayarkarasi College of Arts & Science for Women | Mangayarkarasi College of Arts & Science for Women, Madurai, 05.01.2019 |
| 27. | National Conference on GIS | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 30.08.2019 |
| 28. | International Conference on | M.V.M Govt. Arts College for Women | M.V.M Govt. Arts College for Women, Dindigul, 30.08.2019 |

Resource Person (Date & Detail)

1. Delivered a guest lecture on Image Processing in Association Meeting conducted by Government Arts College(Women) , Nilakkottai on 21.1.2015
2. Delivered a lecture in one day National Seminar on Deep Learning and Data Analytic Techniques using Image Processing on 11.08.2018 organized by Kalasalingam Institute of Technology , Srivilliputhur, Virudhunagar
3. Delivered a guest lecture on Nature Inspired Computer Algorithms in Association Meeting conducted by Government Arts College(Women) , Nilakkottai on 16.2.2018
4. Delivered a guest lecture on Future Trends in Digital World in Association Meeting conducted by Government Arts College(Women) , Nilakkottai on 6.3.2019
5. Delivered a guest lecture on Applications of Image Processing at Amman Arts & Science College , Dindigul on 12.9.2019

Conference Session Chair / Reviewer

1. Chaired a Session in the National Conference on Computational Methods, Communication Techniques and informatics held at the GRI-Deemed University, Gandhigram, 27-28 Jan 2017
2. Served as a Technical Program Committee member in First International conference on Computer Vision , Networks and Informatics at GRI-Deemed University, Gandhigram, 22-23 Mar 2018

Coordinator for Academic activities

- 1) Incharge for Audio Visual of Govt Arts college, Nilakkottai. 2013-14
- 2) Coordinator of YRC of Govt Arts college, Nilakkottai. 2013-14
- 3) Sports incharge of M.V.MuthiahGovt Arts College for Women, Dindigul , 2014-15
- 4) NIRF Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2017-18
- 5) AISHE Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2017-18
- 6) NIRF Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2018-19
- 7) AISHE Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2018-19
- 8) NIRF Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2018-19
- 9) AISHE Nodal Officer of M.V.MuthiahGovt Arts College for Women, Dindigul , 2018-19
- 10) NAAC Committee member of M.V.MuthiahGovt Arts College for Women, Dindigul , 2019-20

***During academic career till date**

Note (in detail) : During academic career till date

- 1) Attach Paper Published in Journals**
- 2) Attach Paper Published in Seminar / Conference / Workshop**
- 3) Seminar / Conference / Workshop / Organized /Attended**
- 4)Books published/Edited**
- 5) Research ProjectsAmountsanctioned&other details**
- 6) Resource Person (Date & Detail)**
- 7) Awards**
- 8) Patent**
- 9)Extension Activities**