

Dr. Sr. A. Jenitta, M.E., Ph.D., M.I.S.T.E., Principal

*Professor/Dept. of Electronics & Communication Engineering
Idhaya Engineering College for Women,
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Academic Background

Doctorate in Digital Image Processing

Anna University, Chennai, 2018

Master of Engineering in Communication Systems

Hindustan Engineering College, Chennai, (Affiliated to Anna University, Chennai)

FWD-Anna University 1st Rank holder, Gold Medallist, 2007

Bachelor of Engineering in Electronics and Communication Engineering

Idhaya Engineering College for Women, Chinnasalem, (Affiliated to Anna University, Chennai)

FWD – College Topper, 2005

Years of Experience: 16 Years

Areas of Specialization

Digital Image Processing

Pattern Recognition

Computer Vision

Machine Learning

Research Contribution

1. **Patent on IoT based method and System for Rainwater Harvesting and Storage by Converting it to Drinkable Water** has been successfully filed on 29-05-2021 under IP Australia and granted.
 2. **Recognized as Supervisor (No 3340072) by Anna University, Chennai** for guiding Ph.D Scholars since 2019.
 3. **Doctoral Thesis** on “Investigations on Content based Medical and Remote Sensing Image retrieval using texture based pattern descriptors”, Feb 2018.
 4. **Post Graduate Project** on “Emotion Recognition using K-means clustering algorithm”, June 2007.
 5. **Under Graduate Project** on “Speech Recognition using Mel frequency Scaling”, April 2005.
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Research Publications in International Journals

1. Heartlin Maria, H, Maria Jossy, A, Malarvizhi, G, & **Jenitta, A, 2022**, ‘De-noising low dose CT images of the ovarian region using modified discrete wavelet transform’, *Multimedia Tools and Applications*, Springer, Vol. 81, pp. 17095-17110, <https://doi.org/10.1007/s11042-022-12529-4>.
2. Heartlin Maria, H, Maria Jossy, A, Malarvizhi, G, & **Jenitta, A, 2021**, ‘Analysis of lifting scheme based Double Density Dual-Tree Complex Wavelet Transform for de-noising medical images’, *Optik, Elsevier*, Vol. 241, 166883, ISSN 0030-4026, <https://doi.org/10.1016/j.ijleo.2021.166883>.
3. **Jenitta, A, & Catherine Mary, J, 2019**, ‘Identification of Nutrient Deficiencies in Plant Leaf Using Probabilistic Neural Network’, *Journal of Applied Science and Computations (JASC)*, Vol.6,issue.3,pp.225-231, (UGC approved journal Serial Number: 41238, Impact Factor 5.8)
4. **Jenitta, A & Samson Ravindran, R 2018** , ‘Content based geographic image retrieval using local vector pattern’ *Brazilian Archives of Biology and Technology*, vol. 61, e18160717, 2018 <http://dx.doi.org/10.190/1678-4324-2018160717> (AU-Annexure 1, S. No. 1615, Impact Factor:0.45)
5. **Jenitta, A & Arul Jothi, 2018**, ‘An Convolutional Neural Network Approach for Automatic Image Annotation and Refinement’ *International Journal on Electronics & Wireless Communication Engineering (IJEWCE)*, Vol. 10, Issue 10.
6. **Jenitta, A & Samson Ravindran, R 2017** , ‘Image Retrieval based on Local Mesh Vector Co-occurrence Pattern for Medical Diagnosis from MRI brain images’ *Journal of Medical Systems, Springer US*, vol. 41, no. 10, Article-157, DOI 10.1007/s10916-017-0799-z. (AU-Annexure-I, S. No. 6581, Impact Factor: 2.456)
7. **Jenitta, A, Abinandhini, G, Geerthanadevi, M, & Latha, 2017**, M ‘A Fast Panorama Stitching Method of Image Sequence’, *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)*, PP 58-63
8. **Jenitta, A & Ramya, R, 2017** ‘Foot Injury Detection using K-means clustering and mean shift segmentation algorithm’ *IJARBEST, ACE Publication*, Vol.3.
9. **Jenitta, A & Samson Ravindran, R 2016**, ‘An Efficient Content-Based Medical Image Retrieval Using Local Vector Pattern’, *Asian Journal of Research in Social Sciences and Humanities*, vol. 6, no. 9, pp. 161-172. (AU-Updated list- 2016, S. No. 1108, Impact Factor: 4.557).
10. **Jenitta, A, Samson Ravindran, R, Subathra, T, Saranya, R & Vimala Tamil Selvi, K 2015**, ‘Image Processing Based Blood Group Identification from Agglutinated Blood Sample images’, *International Journal of Applied Engineering Research*, vol. 10, no. 9, pp. 6974- 6979. (AU-Annexure-II, S. No. 8565, Impact Factor: 0.14).

Research Publications in International and National Conferences

International Conferences

1. P. Maheswari, **A. Jenitta**, & A. Mariya Eadel Queen, “Multi Media Image Retrieval System Using Machine Learning Algorithm with Handcraft Features “Proc. of 6th International Conference on Computing Information Electronics and Electrical Engineering, ISBN: 978-93-91930-46-2, April 2023

2. D. Monica Sellus, & **A. Jenitta**, “Detection of Diabetic Retinopathy Using Convolutional Neural Network” Proc. of 5th International Conference on Computing Information Electronics and Electrical Engineering, ISBN: 978-93-91930-01-1, May 2022.
3. **A. Jenitta**, S. Shanmugapriya, P. Aathilakshmi, & A. Abinaya, “A Real Time Motion Detection Surveillance System Using AVR ATMEGA328P”, Proc. of 5th International Conference on Computing Information Electronics and Electrical Engineering, ISBN: 978-93-91930-01-1, May 2022.
4. **A. Jenitta**, & A. Maria Eadel Queen, “Detection of Border Line Mental Dis-Order on Imaging of Electro Cardio Signals Using Empirical Mode Decomposition”, International Conference on Computing Information Electronics and Electrical Engineering, Feb 2020.
5. Sneha. S & **A. Jenitta**, “Morphological Based Rain Streaks Removal in Traffic Surveillance Using CNN Technique”, International Conference on Computing Information Electronics and Electrical Engineering, Feb 2020.
6. R.Saranya, & **A.Jenitta**, “Neural Network Based Human Age Estimation and Classification from Medical Imaging Data” International Conference on Computing Information Electronics and Electrical Engineering, Feb 2020
7. **Jenitta, A** & Samson Ravindran, R ,“Reflexive spotting of Deep Vein Thrombosis in the Femoral Nerve based on Multiple Feature Extraction and Classification techniques’, In : Proc. of **IEEE** International conference on Emerging Devices and Smart Systems, Namakkal, India on 3,4 March 2017.
8. **Jenitta, A**, Samson Ravindran, R & Catherina Mary, J , ‘Textural Feature Extraction from Medical Images using Local Pattern Descriptor’, In: Proc. of the International conference computing, Information, Electronics and Electrical Engineering, Villupuram , India on 12,13 April 2016.
9. **Jenitta, A** “An Application of Content based image retrieval using Tattoo images” In: Proc. of the International Conference held at Ranippettai Engineering College, Thenkadappanthangal on 17th April, 2013.
10. Chitra, V & **Jenitta, A**, “A Novel Application of Robotics –RATBOT” In: Proc. of the International Conference held at Magna College of Engineering, Chennai on 12th and 13th April 2012.
11. **Jenitta, A**, “An Emotional Recognition from the speech signal using K-means clustering algorithm” In: Proc. of the International Conference on Nanomaterials, Communication & Broadcasting Systems held at Sastra University, Thanjavur on 9th and 10th February 2007.

National Conferences

1. **Jenitta, A**, Jayashree, S, Jayasutha, B, Kalaimathi, C & Prabha, M ‘Change detection for remote sensing imagery’, In: Proc. of the National Conference on Recent Advances in Communication Engineering, Sri Balaji Chockalingam Engineering College, Arni, India on 24th March 2016.
2. Abidha Parveen, A, Sivasakthi, J & **Jenitta, A** “Depth AAM based Feature Extraction” In: Proc. of the National conference “Advanced Communication and Computing Techniques” (NCACCT’14) at Sri Sai Ram Engineering College, Chennai, on 11th April 2014.
3. Kasthuri, V, Sivaranjani, S & **Jenitta, A** “Land use Land cover Aerial Image Retrieval” In: Proc. of the National conference “Communication, Signal Processing and IC design” (NCCSPID’14) at Adithya Institute of Technology, Coimbatore on 28,29 March 2014.

4. **Jenitta, A** “Video Object Tracking using Kalman Filter” In: Proc. of the National Conference held at Bannari Amman Institute of Technology, Coimbatore on 2nd and 3rd April 2012.
5. **Jenitta, A & Arthi, A, Leena Rosalin Jenifer, M, Jeyce Pricilla, A, & Mary Arthi, F,** “A Novel Technique of Video Compression for Palmtops and Mobile Phones” In: Proc. of the National Conference held at Jayalakshmi Institute of Technology, Thopur on 24th March 2012.
6. **Jenitta, A, & Lakshmi, P,** ‘Medical Palmistry in Health care domain using digital image processing’ In: Proc. of the National Conference held at Magna College of Engineering, Chennai on 19th August 2011.
7. **Jenitta, A** “Emotion recognition from the speech signal using K-means clustering Algorithm” In: Proc. of the National Conference held at Sathyabama University, Chennai on 29th March 2007

[Dr. Sr. A. JENITTA]