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### **LIST OF PUBLICATIONS**

#### **International Journal Publication:**

1. Akila Agnes, S., **Anitha, J.**, Dinesh Peter, J., “Automatic lung segmentation in low-dose chest CT scans using convolutional deep and wide network (CDWN)”, Neural Computing and Applications, 2020, 32(20), pp. 15845-15855S. (Springer Verlag) **[IF-4.213]**
2. S. Akila Agnes, **J. Anitha**, S. Immanuel Alex Pandian, J. Dinesh Peter, "Classification of Mammogram Images Using Multiscale all Convolutional Neural Network (MA-CNN)" Journal of Medical Systems, 2020. (Springer) **[IF-3.058]**
3. Akila Agnes, S., **Anitha, J.**, Appraisal of deep-learning techniques on computer-aided lung cancer diagnosis with computed tomography screening, Journal of Medical Physics, 2020, 45(2), pp. 98-106.
4. Agnes, S.A., **Anitha, J.**, “3D lung segmentation on CT images using region-based method”, International Journal of Advanced Trends in Computer Science and Engineering, 2019.
5. S. Akila Agnes, **J. Anitha**, “Automatic Lung Cancer Detection in Low-Dose Lung CTs Using Transfer Learning”, Journal of Advanced Research in Dynamical and Control Systems, 10(7), pp. 195-201, 2018. SJR-0.114 (Institute of Advanced Scientific Research, Inc.)
6. **J. Anitha**, J. Dinesh Peter, S. Immanuel Alex Pandian, “A Dual Stage Adaptive Thresholding (DuSAT) for Automatic Mass Detection in Mammograms”, Computer Methods and Programs in Biomedicine, Vol. 138, pp. 93–104, January 2017. SJR-0.639 SNIP-1.492 (Elsevier) **[IF-2.503]**
7. **J. Anitha**, J. Dinesh Peter, “Mammogram Segmentation using Maximal Cell Strength Updation in Cellular Automata”, Medical and Biological Engineering and Computing, Vol. 53, Issue 8, pp 737-749, August 2015. (CI-10) SJR-0.699 SNIP-1.238 (Springer) **[IF-1.916]**
8. S. Immanuel Alex Pandian, G. JoseminBala, **J. Anitha**, “A Pattern based PSO Approach for Block Matching in Motion Estimation”, Journal of Engineering Applications of Artificial Intelligence, Vol. 26, Issue 8, pp. 1811-1817, Sep. 2013. (CI-10) SJR-1.047, SNIP-1.940 (Elsevier) **[IF-2.894]**
9. S. Immanuel Alex Pandian, G. JoseminBala, Maya K. Kuriakose, **Anitha. J.**, “A Hierarchical Algorithm with Fast Convergence Spiral Search Pattern for Block Matching in Motion Estimation”, International Journal of Computational Vision and Robotics, Vol. 6, No. 4, pp. 435-449, 2016. SJR-0.143, SNIP-0.511 (Inderscience)
10. **J. Anitha**, J. Dinesh Peter, “A MultiresolutionRipplet Transform for Breast Cancer Diagnosis in Digital Mammograms”, Recent Patents on Computer Science, Vol. 9, Issue. 3, pp. 195 - 202, 2016. SJR-0.128, SNIP-0.171 (Bentham Science)
11. **J. Anitha**, J. Dinesh Peter, “Mass Segmentation in Mammograms using a Kernel based Fuzzy Level (KFLS) Method”, International Journal of Biomedical Engineering and Technology, 19(2), pp. 133-153, 2015. (CI-1) SJR-0.288, SNIP-0.425 (Inderscience)

12. S. Immanuel Alex Pandian, G. JoseminBala, **J. Anitha**, “An Efficient Diamond Based X-Pattern Motion Estimation for Video Coding”, International Journal of Imaging and Robotics, Vol. 9, Issue 1, pp. 116-128, 2013. SJR-0.313, SNIP-0.839 (Ceser)

Others:

13. P. ArockiaJansi Rani, V. Sadasivam, **J. Anitha**, P. Anne Joe Preethi, “A Novel computing Network for Authenticated Morphologically Compressed Images”, International Journal of Computing, Vol. 2, No.1, pp. 54-68, Binary University College of Management and Entrepreneurship, Malaysia, June 2006. ISSN: 1823-5603
14. S. Immanuel Alex Pandian, **J. Anitha**, “Neural Network Approach for Color Image Compression in Transform Domain”, International Journal of Recent Trends in Engineering, Vol.2, No.1-6, pp.152-154, Nov 2009. ISSN 1797-9617
15. **J. Anitha**, S. Immanuel Alex Pandian, “A Color Image Digital Watermarking Scheme Based on SOFM”, International Journal of Computer Science Issues, Vol. 7, Issue 5, pp. 302-309, Sep. 2010. ISSN: 1694-0784
16. PriyaPremkumar, **J. Anitha**, “A Better Approach to Attain Appropriate Images from a Collection of Images using Fuzzy-C-Means”, CiiT International Journal of Digital Image Processing, Vol. 3, No. 4, pp. 231-236, March 2011. ISSN: 0974-9691
17. Neethu Tom, **J. Anitha**, “Multiple Object Detection and Tracking with Scene Context”, CiiT International Journal of Digital Image Processing, Vol. 3, No. 4, pp. 259-262, March 2011. ISSN: 0974-9691
18. Ann Mary Mathew, **J. Anitha**, “Attaining a Super Quality Video from Multiple Compressed Copies Using IVEM”, CiiT International Journal of Digital Image Processing, Vol. 3, No. 4, pp. 226-230, March 2011. ISSN: 0974-9691
19. Ann Maria Jacob, **J. Anitha**, “Inspection of Various Object Tracking Techniques”, International Journal of Engineering and Innovative Technology, Vol. 2, Issue 6, pp. 118-124, Dec. 2012. ISSN: 2277-3754
20. Hydin John, **J. Anitha**, “A Study of Image Segmentation Approaches”, International Journal of Advanced Research in Electronics and Communication Engineering, Vol. 1, Issue 4, pp. 62-68, October 2012. ISSN: 2278-909X
21. Merin Antony, **J. Anitha**, “A Survey on Moving Object Segmentation Methods”, International Journal of Advanced Research in Electronics and Communication Engineering, Vol. 1, Issue 4, pp. 73-80, October 2012. ISSN: 2278-909X
22. Lisha Sara Varughese, **Anitha. J**, “A Study of Region Based Segmentation Methods for Mammograms”, International Journal of Research in Engineering and Technology, Dec. 2013; 2(12), pp. 421-425. ISSN: 2319-1163
23. Sherlin Suresh, **J. Anitha**, “Multilevel Thresholding for Color Image Segmentation using Optimization Algorithm”, International Journal of Scientific & Engineering Research Volume 8, Issue 7, July-2017, pp. 479-489, ISSN: 2229-5518.

## INTERNATIONAL CONFERENCES

1. **Anitha, J.**, Akila Agnes, S., Immanuel Alex Pandian, S., “Self-supervised representation learning framework for remote crop monitoring using sparse autoencoder”, Advances in Intelligent Systems and Computing, 2021, 1167, pp. 219-227.
2. Akila Agnes, S., **Anitha, J.**, “Automatic 2D Lung Nodule Patch Classification using Deep Neural Networks”, Proceedings of the 4<sup>th</sup> International Conference on Inventive Systems and Control, ICISC 2020, 2020, pp. 500-504.

3. Bruntha, P.M., Pandian, S.I.A., **Anitha, J.**, Mohan, P., Dhanasekar, S, "Local Ternary Co-occurrence Patterns based Lung Nodules Detection", 6<sup>th</sup> International Conference on Advanced Computing and Communication Systems, ICACCS 2020, Coimbatore.
4. Emmanuel, K.S., Mathuram, C., Priyadarshi, A.R., George, R.A., **Anitha, J.**, "A Beginners Guide to Procedural Terrain Modelling Techniques", 2<sup>nd</sup> International Conference on Signal Processing and Communication, ICSPC 2019, Coimbatore.
5. Saketh Reddy, T., Saathwik Reddy, D., NithinNihar, A., Samuel Sumanth, M., **Anitha, J.**, "Comparitive Analysis on Transformation based Watermarking", 2<sup>nd</sup> International Conference on Signal Processing and Communication, ICSPC 2019, Coimbatore.
6. Immanuel Alex Pandian, S., **Anitha, J.**, "An Efficient Predictive and Intelligent based Motion Estimation in Video Coding", 2<sup>nd</sup> International Conference on Signal Processing and Communication, ICSPC 2019, Coimbatore.
7. Fiona, J.R., **Anitha, J.**, " Automated Detection of Plant diseases and Crop Analysis in Agriculture using Image Processing Techniques: A Survey", Proceedings of 2019 3<sup>rd</sup> IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019, Coimbatore.
8. Immanuel Alex Pandian, S., **Anitha, J.**, "An unvarying orthogonal search with small triangle pattern for video coding", Smart Innovation, Systems and Technologies, 2019,
9. P. Vithu, **J. Anitha**, KumudhaRaimond, Moses.J.A, "Identification of Dockage in Paddy using Multiclass SVM", IEEE International Conference on Signal Processing and Communication, 28-07-2017 to 29-07-2017, Karunya University, Coimbatore.
10. **J. Anitha**, J. Dinesh Peter, "A Spatial Fuzzy based Level Set Method for Mammogram Mass Segmentation", IEEE International Conference on Electronics and Communication System, 13-02-2014 to 14-02-2014, Karpagam College of Engineering, Coimbatore.
11. **J. Anitha**, J. Dinesh Peter, "A Region Growing based Mammogram Segmentation using Multi Resolution Analysis", International Conference on Advances in Mass Data Analysis of Images and Signals in Medicine, Biotechnology, Chemistry and Food Industry, 14-07-2013 to 15-07-2013, New York, USA.
12. Kaimal. A.B, Manimurugan. S, **Anitha. J.**, "A modified anti-forensic technique for removing detectable traces from digital images", 3<sup>rd</sup> International Conference on Computer Communication and Informatics, 04-01-2013 to 06-01-2013, Coimbatore, India.
13. Kaimal, A.B, Manimurugan, S, Rajivkumar, J, **Anitha. J.**, "A New Technique for Removing Forensically Detectable Traces from Digital Images", 7<sup>th</sup> International Conference on Intelligent Systems and Control, ISCO 2013, pp. 321-324, 04-01-2013 to 05-01-2013, Coimbatore.
14. **J. Anitha**, J. Dinesh Peter, "A Wavelet Based Morphological Mass Detection and Classification in Mammogram", International Conference on Machine Vision and Image Processing, 14-12-2012 to 15-12-2012, PSG College of Technology, Coimbatore. (CI-5)
15. S. Immanuel Alex Pandian, G. JoseminBala, **J. Anitha**, "Enhanced Modified Orthogonal Search for Motion Estimation", IEEE International conference on Recent Advances in Intelligent Computational Systems, (RAICS), 22-09-2011 to 24-09-2011, Thiruvananthapuram, Kerala. (CI-10)
16. PriyaPremkumar, **J. Anitha**, "Accessing Relevant Images: Fuzzy K-Means", 3<sup>rd</sup> International Conference on Electronics Computer Technology (ICECT), 08-04-2011 to 10-04-2011, Kanyakumari.

17. **J. Anitha**, Ann Mary Mathew, "Video Quality Enhancement using IRM", International Conference on Recent Trends in Information Technology (ICRTIT), 03-06-2011 to 05-06-2011, Chennai.