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Topic of Interest: Medical Image Processing, Soft Computing Techniques, Artificial Intelligence

- **Conferences:**

1. Lakshmi, D., Roy Santosham and H. Ranganathan, "Comparison of Texture Analysis in the Differentiation of Carcinoma from Other Lung Abnormalities using Low Dose CT Images", IEEE EMBS-Special Topic Conference on Point-Of- Care Technologies(IEEE- EMBS POCHT 2013), Bangalore,India, 16-18th January 2013, pp.271- 274. DOI:10.1109/PHT.2013.6461337

2. Lakshmi, D., Roy Santosham and H. Ranganathan, "PCA for Non-Invasive Tissue Characterization of lung using low-dose Computed Tomography Images", National Conference on Recent Innovations in Science Engineering and Technology (NCRISET 2014), Institute of Research and Journals, Pune, India, 10st August 2014, pp.71-73

3. D. Lakshmi, Roy Santosham, H. Ranganathan, " Non-Invasive Method of Characterization of Fibrosis and Carcinoma using Low-Dose Lung CT Images", IEEE – International Conference on Systems, Man and Cybernetics 2013 (IEEE SMC 2013), Manchester, U.K., 13-16th October 2013.pages-2168-2172. DOI:10.1109/SMC.2013.371

4. D. Lakshmi, H. Ranganathan, "Gray-Level Co-occurrence Matrix based Isolated Nodule Classification for the Diagnosis of Lung Cancer", Joint International Conference on Swarm Evolutionary and Memetic Computing (SEMCCO 2011) and Fuzzy and Neural Computing Conference (FANCCO 2011), Andhra University, Visakhapatnam, India,19-21st December 2011,pages 24-28.

5. D.Lakshmi, H. Ranganathan, "Morphological Processing in Segmentation of Lung from CT scan images for Diagnosis of Lung Cancer", National Conference on Emerging Trends in Communication Systems (NCETCS 2008), DMI College of Engineering, Anna University, Tamil Nadu, India, 19th September 2008, pages 116-119.

6. D.Lakshmi, Roy Santosham, H. Ranganathan, "Application of ANOVA in Lung Tissue Characterization using CT images", National Conference on Advances in Computing and Technology (NCACT 2014), VIT UniversityChennai Campus, India, to be held on 21st February 2014.pages:32-37.

7. Srinivasan K S, Lakshmi D, Ranganathan H, Gunasekaran N, "Non-Invasive Estimation of Hemoglobin in Blood using Color Analysis", First international Conference on Industrial and Information Systems, August 2006, DOI: 10.1109/ICIIS.2006.365788

- **Journals:**

1. D. Lakshmi K. Palani Thanaraj M. Arunmozhi, Convolutional neural network in the detection of lung carcinoma using transfer learning approach, Int J Imaging Syst Technol. 2019;1–10.DOI: 10.1002/ima.22394,IF :1.254/ H-Index - 43

2. Thendral. N, Lakshmi. D,"Performance Comparison of SVM Classifer Based on Kernel Functions in Colposcopic Image Segmentation for Cervical Cancer", ISMAC-CVB 2018, Springer Book Series-Lecture Notes in Computational Vision and Biomechanics, pp: 1835-1844.

3. Lakshmi. D, Niruban. R," Mathematical model for Characterization of Lung Tissues using Multiple Regression Analysis", Book Title - Soft Computing in Data Analytics, Springer Book Series - Advances in Intelligent Systems and Computing, AISC, Vol.758, pp:117-123

4. Lakshmi, D., Roy Santosham and H. Ranganathan,, "Automated Texture Based Characterization of Fibrosis and Carcinoma Using Low-Dose Lung CT Images", International Journal of Imaging Systems and Technology, Vol - 24, Issue -1 -Mar 2014, Pages: 39-44, Online ISSN: 1098-1098. DOI: 10.1002/ima.22077. –ANNEXURE- I, Impact Factor: 0.768.

5. Lakshmi, D., Roy Santosham and H. Ranganathan,, "ANOVA of Texture based Feature Set for Lung Tissue Characterization using CT Images", Journal of Computer Applications, Vol.7, Issue-1, Jan-Mar 2014, pp.1-5, ISSN: 0974-1925.

6. D. Lakshmi, Roy Santosham, H. Ranganathan, "ANFIS in the Characterization of Fibrosis and Carcinoma using Lung CT Images", Indian Journal of Computer Science and Engineering, Vol.4,Issue-4, Aug-Sep 2013, E - ISSN: 0976-5166, P-ISSN: 2231-3850,pp-317-323

7. D. Lakshmi, Roy Santosham, H. Ranganathan, "Neural Network in the Characterization of Fibrosis and Scar Carcinoma using Lung CT Images", IJERIA,Vol. 7,No II, May 2014.

- **Any other achievements (Awards / Patents / Funded Projects / Interaction with outside world)**

1. Confederation of Elite Academicians of IICDC –India Innovation Challenge Design Contest - 2019 AICTE,DST and Texas Instruments Inc.,India 2019-2020

2. IICDC – Fund of 400 USD is received AICTE,DST and Texas Instruments Inc.,India 2019-2020

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