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Exploring the Average Information Parameters over Lung Cancer for Analysis and Diagnosis

Vaishnaw G. Kale and Vandana B. Malode

Abstract Lung cancer seems to be a very common cause of death among the people all over the world. Hence, accurate detection of lung cancer increases the chance of survival of the people. The major problem with the treatment is the time constraint in several physical diagnoses that increases the death possibilities so basically this method is an approach to help the physicians to take more accurate decision in this regard. This paper comes up with a method which is based on average information statistical parameters using image processing for lung cancer analysis. The basic aim is to help the physicians to take decisions regarding possibilities of lung cancer. Image averaging is a digital image processing technique, which is mostly implemented to improve the quality of images that have been degraded by random noise. The average information parameters are among the statistical parameters that are implemented for lung cancer analysis, and hence, some of the parameters like Entropy, Standard Deviation, Mean, Variance, and MSE are considered in this paper. The selection of average information parameters is thoroughly based on the calculation of number of iterations carried over the lung images through the algorithm. This paper also successfully rejects null hypothesis test by implementing ANOVA. The images are microscopic lung images and the algorithm is implemented in MATLAB.

Keywords Average information · Statistical parameters · Lung cancer ANN · ANOVA

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