Abstract

Cancer is one of the dreadful diseases, which causes considerable death rate in humans. Cancer is featured by an irregular, unmanageable growth that may demolish and attack neighboring healthy body tissues or somewhere else in the body. There are dissimilar techniques lives for the naming of cancer but none of those techniques afford considerable
accuracy of detection. Therefore a new method is highly essential for the cancer classification
with improved accuracy. Gene expression profiling by microarray method has been emerged as
an efficient technique for classification and diagnostic prediction of cancer nodules. In recent
times, DNA microarray technique has gained more attraction in both scientific and in industrial
fields. The DNA microarrays are utilized in this paper for the purpose of identifying the presence
of cancer. Statistical ranking has also been used for effective cancer classification. The most
widely used ranking schemes are ANOVA, T-score and Enrichment Score. But, these existing
techniques suffer from the drawbacks of less accuracy, complexity etc. This paper uses liver
cancer data set for experimentation of the proposed technique. The classifier used here is SVM
and FNN. The experimental results shows that the proposed technique has the ability to classify
the cancer cells significantly when compared to the conventional methods of cancer
classification.

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**Index Terms**

Computer Science

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**Key words**

Microarray Dataset

Enrichment Score

Correlation Based Ranking

MAPSTD

SVM
FNN