



International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.14, pp 190-197, 2017

A Novel Feature Selection Algorithm for Dimensionality Reduction in Microarray Datasets

A.K. Shafreen Banu^{1*}, S. Hari Ganesh²

¹Dept. of Information Technology, Bishop Heber College (Autonomous), Tiruchirappalli.620017, India

² Dept. of Computer Science, H.H The Rajah's College, Pudukottai-622 001, India

Abstract : Dimensionality reduction is one of the vital and challenging tasks of feature selection techniques in data mining, as it requires an intrinsic analysis of data distribution with respect to class label. Despite the *non-linear* distribution of data attributes, the *linear attributes* have gained more attention by the researchers as it could build an effective knowledge prediction model with maximized accuracy. The objective of this paper is to propose another *feature selection* algorithm that is designed to process linear data attributes for reducing the *dimensions* of *microarray* datasets. The algorithm is also to be well compared with the existing algorithms to prove its efficacy in terms of usefulness.

Keywords : microarray, feature selection, high dimensional, non-linear and linear attributes.

A.K. Shafreen Banu *et al* /International Journal of ChemTech Research, 2017,10(14): 190-197.
