

190. AN EFFICIENT CANCER CLASSIFICATION BY USING HYBRID FEATURE SELECTION APPROACH WITH SEMI SUPERVISED SVM

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Microarray analysis is becoming a powerful tool for clinical diagnosis, as they have the potential to discover gene expression patterns that are characteristic for a particular disease. Feature (gene) selection is an important pattern recognition problem. Successful feature selection has several advantages for microarray data. DNA microarray data now determine whether genes are active or silent in normal and cancerous tissues. Earlier method used fuzzy preference based rough set model with semi supervised methods for feature selection [1]. The present work proposes a prediction scheme that combines hybrid selection method for feature (gene) selection with semi supervised SVMs. To show the effectiveness of the proposed approach, the performance of this technique is compared with the fuzzy preference based rough set (FPRS) method for feature (gene) selection with semi supervised SVMs. Experimental result provides better result when compare with existing system.

Keywords— DNA, cancer classification , microarray cancer data, support vector machines, transductive support vector machines, hybrid selection).

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