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(71)**Name of Applicant :**
1)Dr.M.Govindarajan
Address of Applicant :Assistant Professor DepartmEent of Computer Science and Engineering Annamalai University Annamalai Nagar-608002 Tamil Nadu, India. Tamil Nadu India
(72)**Name of Inventor :**
1)Dr.M.Govindarajan
2)Dr.A.Mishra

(57) Abstract :
An ensemble framework is proposed to find highly accurate classifier by fusing many moderately accurate component classifiers with resampling methods as bagging and arcing and their performances are analyzed in terms of accuracy. A classifier ensemble is designed using Radial Basis Function (RBF) and Support Vector Machine (SVM). The proposed ensemble methods are based on three main parts: preprocessing, classification, and resampling. A wide range of comparative experiments are conducted for data mining problems and their results show that the proposed ensemble methods exhibit higher accuracy compared to individual classifiers. Thus, the ensemble framework provides significant improvement of efficiency in learning the classifiers and the accuracy of classification performance.

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