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Biometry and Genetics

Oral Presentations

Machine Learning Methods: Native Bayes and Support Vector Machines

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Abstract

Machine learning methods are general name of computer algorithms that is capable for modeling to classification and prediction or estimation by using the data related with the research problem. When the response variable is categorical, these algorithms aim to classify. However, for the continuous response variable, the methods are used for prediction or estimation. In the classification, in case of objects classes known, these methods are called supervised methods and in case of unknown; the methods are named as unsupervised methods. Naive Bayes and Support Vector Machines which are supervised classification method can be used for classification research when the response variable is binary or dichotomous such as successful-failed or healthy-patient.Computing of Naïve Bayes which is the simplest form of Bayesian networks is based on Bayes' theorem. By the most basic form, it assumes the presence or absence of any feature is independent from the other features given for classification. This is known as conditional probability. Similarly, Support vector machines which is firstly introduced by Vapnik (1979) is one of the supervised methods and used for pattern recognition and classification. The method aims to find a hyper plane to provide the best separation with maximizing distance between the closest points for classification.In this study, the information about Naive Bayes and Support vector machines which are supervised machine learning methods was presented and performance of the methods was evaluated by an application with animal data.

Keywords: classification, naïve bayes, support vector machine, machine learning methods