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Improving the Usefulness of Statistical Classifiers

Monday, 16 September 2024 12:00 (30 minutes)

The use of a statistical classifier can be limited by its conditional misclassification rates (i.e., false positive rate and false negative rate) even when the overall misclassification rate is satisfactory. When one or both conditional misclassification rates are high, a neutral zone can be introduced to lower and possibly balance these rates. In this talk the need for neutral zones will be motivated and a method for constructing neutral zones will be explained. Real-life applications of neutral zone classifiers to prostate cancer diagnosis and to student evaluations of teaching will be discussed.

Type of presentation

Talk

Classification

Both methodology and application

Keywords

Statistical classifier, Neutral zone, Conditional misclassification rates

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