

## STATISTICAL ANALYSIS AND DATA MINING

Original Article

**Measurement of data complexity for classification problems with unbalanced data**Nafees Anwar , Geoff Jones, Siva Ganesh

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## Abstract

We introduce a complexity measure for classification problems that takes account of deterioration in classifier performance as a result of class imbalance. The measure is based on  $k$  - nearest neighbors. We explore the choices of  $k$  and the distance metric through a simulation study, and illustrate the use of our measure, and related data visualization techniques, with real datasets from the literature.

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