

On usage of naive Bayesian classifiers in seismology

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Abstract. The article describes the possibility of using naive Bayesian classifiers in various problems of seismology. These classifiers have been successfully used to reject false alarms of systems of automatic detection and location of seismic events for a single station and seismic network. The possibility of using the classifier for distinguishing explosions and rock bursts is also shown.

Keywords: seismic event, naive Bayesian classifier, recognition, automatic detection.