

Master thesis: 98 p., 2 appendix, 28 images, 39 tabl., 25 sources.

The subject of the research work is efficiency of copula-based Bayesian classifiers with different Copula nature.

The urgency of the work lays in the fact that approach of using copula functions provides more accurate classifiers than the classic Bayesian classifier, while maintaining main advantages of the classical approach.

Object of thesis is a Bayesian classifier, the subject of research is the use of copula functions for building Bayesian classifier.

Research objectives are to build classifiers on the basis of family copula functions, to assess the benefits of their use compared to the classical model classifier, compare results of different generated classifiers.

BAYESIAN CLASSIFIER, COPULA FUNCTION, CLASSIFICATION PROBLEM, EMPIRICAL DISTRIBUTION FUNCTION, SHKLIAR'S THEOREM, GAUSSIAN COPULA, STUDENT'S COPULA, HUMBEL'S COPULA, FRANK'S COPULA