

ABSTRACT

Bachelor thesis: 143 p., 17 fig., 12 tab., 4 appendixes, 19 sources.

Topic: Critical situations classification and danger level recognition in the tasks of information analysis.

The paper consider the original approach to the analysis of information support of decision-maker, based on the study of partial indicators of informedness. Suggested methods allows to classify situations and to inform the decision-maker about danger of decision based on the available information provision. The methods integrated into the general model of information analysis and can be used to solve complex system problems.

The object of the study is complex systems of different nature within their secure functioning.

The subject of the research is models, methods, fuzzy logic and algorithms of decision-maker informedness to support the process of formation and implementation decisions.

The aim is formalizing the process of determining the level of danger situations in solving the problems of information analysis and development of algorithms for fuzzy classification and identification of critical situations.

SYSTEM ANALYSIS, INFORMATION ANALYSIS, PARTIAL INDICATORS OF INFORMEDNESS, CLASSIFICATION, RECOGNITION, DANGER LEVEL.