

## **ABSTRACT**

This thesis contains 91 pages, 17 figures, 14 tables, 1 appendix and 27 bibliographic references.

**NATIONAL SECURITY OF UKRAINE, DATA COLLECTION, STATISTICAL DATA PROCESSING, FUZZY-SET THEORY, LINGUISTIC VARIABLE, MEMBERSHIP FUNCTION**

The object of the research is national security of Ukraine

The purpose of the thesis is to analyze the state of security for past six years with fuzzy-set theory help.

The paper analyzes the existing approaches to assessing the state of national security, concludes that they are all unreliable and with significant disadvantages; therefore, we propose our own approach to the solution of the task: collecting data that has an impact on the national security of Ukraine and then due to fuzzy-sets theory with the usage of expert estimates to make a conclusion on the state of national security, substantiating all calculations by mathematical formulas.

In the future, it is advisable to more accurately approach expert assessments, apply certain criteria for verifying verifications, methods for refining. Also it is possible to use SWOT-analysis or cross-sectional analysis, modifying them previously in order we can have a deal with trapezoidal numbers that we need for a comprehensive assessment.