

ANNOTATION

Master's Thesis 87 pp., 22 Fig., 32 tables, 0 supplements, 7 sources.

The object of the study is the remote banking system.

The subject of the study is Bayesian modeling.

The aim of the study:

1. Investigate the existing income and analyze the security information of the Bank of Ukraine remote banking service.
2. To evaluate the efficiency of remote banking services.

Novelty: proposed hierarchy of the DBO system analyzed by Bayesian modeling

In this work, the results of the study of information security of the remote banking system of the Bank of Ukraine are used. Sector issues are identified, and a hierarchical model of the system that takes place in modern realities is proposed. Goals, scenarios, forces and actors that have a direct impact on the information security of the BSD have been identified. Local priorities have been developed for each level of the hierarchy, which allows us to evaluate the most urgent factors of the problem and draw immediate conclusions. In this way, a department specializing in information security can identify system weaknesses and minimize the risks of unauthorized access.

Finally, a Bayesian model was constructed and the result obtained for each level of the hierarchy. Therefore, at every step, bank employees are able to influence the threats to the system. The global result is 66.36% of threats to Information Banking and 33.64% for Transactional Banking.

HIERARCHY ANALYSIS, REMOTE BANKING SERVICE SYSTEM,
BAYESIAN MODELING, INFORMATION BANKING, DECISION MAKING,
FUZZY LOGIC