

Information security risk analysis in Textile industry:

Case study: Eritrean Textile Industry

Аспирант: Амануал Эстифанос Асфха

Научный руководитель:

Вайш Абхишек (Ph.D.)

ITMO University

Abstract

Background:

To date, many efforts have been made to classify information security threats, especially in the industrial area. However, there are still many unknown risks which may threaten the security of textile information and their resources.

Objective:

The aim of this study was to assess the risks threatening information security in the textile industry located in one of the central cities of Eritrea.

Method:

This study was completed in 2021. The participants were IT managers and risk management experts who worked in the textile industry (n=15). The risk identifications were collected by a questionnaire and interview composed of a number of questions using qualitative and quantitative risk analysis techniques.

Results:

Risk analysis is one of the key stages in the Risk Management Process and specific steps: identifying risk, estimating and evaluating all possible risks. The results showed that among the information security risks, Physical hardware: A2 are in Power Interruptions Threat found to be a high probability/high impact risk factor and Human Resource Management: A5 (staff) are in illness are low probability/Low impact risk factor.

Conclusion:

The high probability danger elements necessitate immediate corrective action. As a result, before experiencing negative consequences, the underlying sources of such dangers should be recognized and controlled. It's also worth noting that information security in textile industrial systems must be examined in the framework of primary interests and policies on a global level.

Keywords: Textile Information System, Information security, Risk, Risk analysis and assessment, Information system.

Амануал Эстифанос Асфха:

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Вайш Абхишек:

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