

Summary

The doctoral thesis addresses the identification of factors conducive to building trust in technology and its impact mechanism on organizational efficiency, a critical aspect for enhancing the competitive advantage of manufacturing organizations. This underscores the significance and relevance of the thesis topic - the role of trust in technology and its influence on the effectiveness of production organizations.

In this context, the research subject of the dissertation is trust in technology, focusing on manufacturing organizations as the object of study. The scientific problem involves characterizing trust in technology within production organizations, as well as examining the mechanism through which trust in technology affects organizational efficiency via user behavioral intentions and the security of technology use.

Chapter one centers on technology and its acceptance within organizations, discussing definitions, utilization, and its role in today's world. Various models of technology acceptance are presented, highlighting the absence of trust considerations in existing theories. Chapter two delves into the topic of trust, particularly in the context of trust in technology. It discusses definitions and factors that build trust, concluding with formulated research hypotheses on this subject. The subsequent chapter focuses on the security of technology use, considering its essence and various aspects, including the role of technical security, support systems, and adherence to ethical principles. This leads to the formulation of a research hypothesis regarding the safety of technology use. Chapter four concentrates on research hypotheses regarding the impact of trust in technology on the efficiency of manufacturing organizations. Chapter five presents the empirical study, detailing materials, methods, and the stages of structural theory validation and testing of the formulated research hypotheses.

The conclusion of the thesis provides a summary of the obtained results and conclusions presented in the work. The research findings have filled gaps in existing studies, achieved the goal of the work, and addressed the research questions.

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