

## ABSTRACT

The theme of the thesis: "Research methods and models of decision-making information systems in assessing the quality of software systems" // Trojan Maxim Mycolayovych // Ternopil Ivan Pul'uj National Technical University, Department of Computer Information Systems and software engineering// Group CIM-61 // Ternopil, 2014 // p. – 145, Fig. -14, Table – 13, sheets A1 – 10, Att. - 1, Ref. - 63.

KEYWORDS: DECISION MAKING, INFORMATION SYSTEMS, SOFTWARE SYSTEMS, QUALITY EVALUATION.

Master's thesis is devoted to research methods and models of decision making when assessing the quality of software systems in information systems management. In the paper we outline Background research, analyzes modern decision support systems and mathematical tools to describe them, the method of synthesis of hierarchical priorities of alternatives when the first step vectors defined priorities of alternatives, the second step formed matrix of paired comparisons, the third step is carried out proper hierarchical synthesis that is consistent definition of priority vectors alternatives and allows you to increase the effectiveness of decision-making by experts in assessing the quality of software systems. In addition, intelligent architecture developed object-oriented decision support system based on CBR technology.

To determine the economic feasibility study conducted in the cost-effectiveness results of scientific research and analyzes issues of safety and security of life and the environment.