ABSTRACT

Thesis performed at 52 pages, it includes 2 applications and a list of references to sources used 12 names. The paper provides 7 figures.

The aim of this thesis is to create mathematical expert system software quality assurance of application software.

The paper analyzes the existing models specified tasks - McCauley model, Boehm model and model standard ISO / IEC 9126. Done comparison, the efficiency of methods and their adaptation for use in an expert system. To solve the problem in the selected model standard ISO / IEC 9126.

For each considered characteristics of software quality assurance expert system formed. The developed expert system that implements the chosen model.

Keywords: software, application software, application software quality, quality assurance of application software, expert system, fuzzy logic.