

## ABSTRACT

The work contains 69 pages, 15 figures and 1 table, 13 sources have been used.

Goal: To increase the precision of logical conclusion by modification of the method of parameter identification of fuzzy knowledge bases based on a genetic algorithm.

In the course of this work a review of the main fuzzy knowledge bases identification methods. Methods of parameter identification of fuzzy knowledge bases using genetic algorithm and the operators of crossing view in details.

A method for parameter identification of fuzzy knowledge bases based on modified genetic algorithm is proposed. A software implementation of the proposed method of identification is proposed.

Keywords: fuzzy knowledge base, identification, genetic algorithm, crossover, linguistic variable, membership function.