

ON GRAPHS AND MATRICES IN THE THEORY OF INFERENCES

Abstract

In the work some classes of the categorical syllogism's type judgments are considered. By using graphs and matrices the problem of construction of the CT-closer of the graphs of initial judgments is considered. The algorithm and the corresponding software program for solving of the considered problem are constructed.

Collision of the cycle type which arises during the construction of the CT-closer of the graph of initial judgments are investigated. Their interpretation and generalized definition are given. The structure of cycles in the CT-closer of the graphs of initial judgments is studied. The algorithm of general principles for the determining of cycles by the achievement matrix is given.