

ANNOTATION

The diploma work on the topic "Telecommunication-information system management of a mini-greenhouse using a service robot" has a text part of 55 pages, 25 figures, 6 tables and 5 sources.

The urgency of the work is due to the increased demand for natural products and the need for remote monitoring of the mini-greenhouse.

The purpose of the project is to analyze the methods of construction, operation of a mini-greenhouse system using service work and development of a mathematical model of operation of a common device consisting of individual subsystems.

During the research, complex methods of synthesis of information and telecommunication control systems of the mini-greenhouse were used, which allowed to choose the optimal way of establishing communications between subsystems. As a result of research it was proved that the created management system is optimal and effective in terms of economic indicators for both the manufacturer and the user. A full-scale model of the system was made, a number of experiments were conducted, which proved the expected efficiency and effectiveness of the studied system.

This topic was presented in the article by I. A. Nidchenko and A. I. Lysenko "Telecommunication-information system management of a mini-greenhouse using a service robot " at the XIV International scientific and technical conference "Prospects of telecommunications 2020".

Key words: control system, wireless network, automation, monitoring, control, crop production.