

ABSTRACT

The thesis is presented in 71 pages. It contains 2 appendixes and bibliography of 4 references. 17 figures and 2 tables are given in the thesis.

The goal of the thesis is to develop mathematical and software control systems GSM Socket tools OC Android.

Considered methods of control GSM sockets, such as Bluetooth, voice menu, SMS commands, Internet.

Considered solutions such as open applications to manage sockets in the Market: GSM Power Socket, TS11 GST - GSM zavuska, SC1-GSM Smart Socket, iSocket, CLSF nordic, Umnaya socket, Mi | GSM.

Based on the criteria set out to solve this problem the method chosen to implement Bluetooth connectivity and basic method RSA encryption method for password protection.

A system that implements the chosen methods and enables secure device management. Tests developed system.

Keywords: GSM, RSA, Bluetooth, security.