

Annotation

This thesis project is devoted to the development of object control systems over radio channels on the RF24L module based on a mobile remote-controlled robot inspector for terrain research for use in the oil and gas industry. The relevance was determined, a technical review of the existing prototypes was carried out and the main problems concerning the automation of the industrial sector were identified. The design part was described in detail, as a result of which a prototype mobile robot inspector was developed, which is used to receive and transmit data via radio channels, based on the RF24L module, necessary for monitoring and controlling production facilities. The work was justified by technical and economic calculations.