

Annotation

This diploma work presents an analysis of the wireless sensor network (WSN) traffic based on the analytical and simulation methods. A simulation model of the base station of a wireless network is developed by using the GPSS World system. A queuing system is considered as a model of a network server of a WSN. Indicators such as the average waiting time for a packet in the queue, the length of the queue, and the average time spent in the system are defined for this model. In addition, the working conditions of an employee working with WSN are analyzed in terms of life safety. The costs of organizing the «Smart Home» project, that developed by using the capabilities of the WSN, are calculated in the economic part.