

## **Abstract**

Analysis of the use of distributed storage algorithms in various areas has been performed to ensure their confidentiality and security. New methods of using distributed storage technologies in IoT technologies, healthcare and electronic voting systems are considered.

The problems of security and data integrity in the IoT network are considered, methods for solving these problems using decentralized data storage and processing models are proposed, the advantages and disadvantages of these solutions are analyzed. The architecture of blockchain integration in IoT networks is proposed, as well as recommendations obtained as a result of modeling are given.