

## ABSTRACT

Theme: Investigation of ways to improve efficiency of queries for databases placed on different hosts.

Aim of work: develop and analyse effectiveness of multiagent system for database administration.

Method of research: models, methods and technologies of distributed data administration in large scaled information systems.

Modern information systems are characterized by distributed big data. Data volumes stipulate the necessity of their network transfer operation numbers minimization. Modern systems work with big data placed on different hosts, for processing queries to them, need their transfer since conform to strict processing algorithms. At the same time, in the work an alternative approach to handling of distributed big data is proposed, based on delegation of decision making about data transfer to the agents of multiagent system, which on concrete hosts make decision about data request or personal transfer with their work results to the remote hosts. The structure of this multiagent database management system and its comparative analysis with Map-Reduce technology on Mongo and Hadoop are proposed in the diploma.