

Research on the performance of Peer-to-Peer network data search under low network stability conditions

Nguyen Thi Minh Huyen

Abstract: This topic aims to analyze and evaluate the performance of search algorithms in Peer-to-Peer networks when encountering unstable network conditions. The objective is to identify optimization solutions to enhance the ability to search and access data quickly and reliably under limited network conditions. The research methodology includes comparing the performance of existing algorithms through simulation and experimental deployment in a specific network environment. The expected result is to propose improvement solutions that enhance user experience in Peer-to-Peer systems, contributing to the sustainable development of this technology.

Keywords: Peer-to-Peer, Data Search, Network Stability, Performance Optimization, Simulation