

Research and simulation of some basic data compression codes

Nguyen Nhu Quynh

Abstract: In the modern context where the demand for storing and transmitting information is increasingly large, optimizing data compression capabilities becomes extremely important. This topic aims to research and simulate basic data compression encoding methods to improve processing performance and save storage capacity. Through a process of theoretical analysis combined with experimentation, the topic provides foundational knowledge about data compression algorithms and presents specific simulation systems. The expected results from this research not only contribute to the body of information technology knowledge but also support the development of practical applications in various fields such as television, cloud storage, and big data management.

Keywords: Compression encoding, data compression algorithm, system simulation