

## ABSTRACT

Today there many there are many telecommunication provider that using messenger service to make customer interest. E3D messenger is instant messaging exchanges that allocated for civitas academic of IT Telkom. More and more resources which allocated online data service and it can access in everywhere. The whole data with small size with still maintains wholeness of data is needed as one of solution for this problem.

In this book, will explain about 2 methode analys comparison there are Algoritma Huffman and Lempel Ziv Welch for know compression effect and the best compression for mobile client.

The research result shows each algoritma has own characteristic differently dan suitable with ceertain file. LZW compression algoritma effectively used for TXT file (Average Ratio=52%)for input 310 until 500 byte.LZW compression (Average ratio = 89%) for input 310 until 500 byte. Because in that range will know the compression comparison of LZW in data compression.

**Kata Kunci:** Kompresi, *Algoritma Huffman, Algoritma LZW, E3D Messenger*