A Dictionary based Efficient Text Compression Technique using Replacement Strategy

Abstract

The concept of compression comes from the need to store data using as less space as possible and to ease transfer of data through a channel. The proposed algorithm deals with compression of text files using character replacement technique. For every string of length six, it is compressed by assigning a single character to it, maintaining a dictionary. The dictionary is used to decompress the encoded file. This gives a good compression ratio irrespective of the content of the text file.

References

- David Solomon, "Data Compression: The Complete Reference", Springer
- Mark Nelson, "The Data Compression Book";

Index Terms

Computer Science

Information Science
Keywords
Lossless Compression  Character Replacement  Compression Ratio  Dictionary