Abstract

Compression of large collections of data can lead to improvements in retrieval times by offsetting the CPU decompression costs with the cost of seeking and retrieving data from disk. In this paper, the author has studied the different compression methods which can compress the large DNA sequence. In this paper, authors have explored the DNA compression method that is COMRAD, which is used to compare with the dictionary based compression method i.e. LZ77, LZ78, LZW and general purpose compression method RAY. In this, authors have analyzed which one algorithm is better to compress the large collection of the DNA Sequence. Compression table and the line graph show that which compression algorithm has a better compression ratio and the compression size. It also shows that which one has better compression and decompression time.

References

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Index Terms

Computer Science
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Keywords

LZ77  LZ78  LZW  RAY  COMRA  DNA Sequence