WEIGHT BALANCED LOSSLESS DATA COMPRESSION ALGORITHM

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ABSTRACT

Data compression technique is to reduce the size of a file to minimum size as the reason the require space is to store the file is less than the original one. In this paper we propose a new technique known as Weight Balanced Data Compression Algorithm (WBDCA), which calculate the weight for each intensity value and depending upon the weight each time some code is given to each intensity value. This technique will manipulates each bit of data inside file to minimize the size without losing any information after decoding which is treated as lossless compression. This basic technique is intended to be combining with other data compression algorithm to optimize the compression ratio. The performance of this algorithm is measured by comparing combination of different data compression algorithm.

KEYWORDS: Data Compression, Intensity Value, Lossless Compression