

Data Compression Techniques And Applications Hardware And Software Considerations

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[Data Compression Techniques And Applications](#)

Introduction to Data Compression

good writing is the art of lossy text compression Is there a lossless algorithm that can compress all messages? There has been at least one patent application that claimed to be able to compress all files (messages)—Patent 5,533,051 titled “Methods for Data Compression...

The Basic Principles of Data Compression

compression than BZip2, DEFLATE and other algorithms at the expense of speed and memory usage Similar to BZip2, a chain of compression techniques are used to achieve the result Summary In conclusion, data compression is very important in the computing world and it is commonly used by many applications...

Understanding Advanced Data Compression

(KBs) of data Others techniques, such as disk-based compression systems, can store as much as 1 terabyte of data To understand the impact of dictionary size, a basic understanding of cache ...

Two-Level Data Compression using Machine Learning in Time ...

A Data Compression The data compression can be regarded as a process to transform a byte sequence in some representation (eg, floating numbers

for metric value) into a new byte sequence that contains the same information but with less bytes As surveyed in [16], there are many universal compression techniques...

A Research Paper on Lossless Data Compression Techniques

Data compression is important application in the area of file storage and distributed system For different data formats like text, audio, video and image files there are different data compression techniques Mainly there are two forms of data compression...

Data Compression Techniques for Urban Traffic Data

utilized for applications such as traffic prediction [5], sensing [4], data imputation [14] and even data compression [9], [15] The previous studies related to traffic data compression have mainly focused on a few intersections [9], [13], [15] Practical implementations require data compression ...

Need for Data Compression

Lossless data compression is used in many applications For example, it is used in the ZIP file format and in the GNU tool gzip It is also often used as a component within lossy data compression ...

Application of Compressive Sensing Techniques in ...

amounts of data in heterogeneous environments makes real-time fusion increasingly challenging [23]-[25] Thus, desirable (or lossless) data compression is very important in designing WSNs for ...

On Hyperspectral Image Compression

Hyperspectral Data Compression edited by G Motta and J Storer, Springer-Verlag Spectral/Spatial Hyperspectral Image Compression Bharath Ramakrishna¹ Antonio J Plaza^{1,2} Chein-I Chang¹ ...

Dimensionality Reduction for Data Mining

Dimensionality Reduction for Data Mining-Techniques, Applications and Trends Lei Yu Most machine learning and data mining techniques may not be effective for high-dimensional data data onto 2D or 3D Data compression...

On Statistical Data Compression - CORE

Data compression is an essential tool to keep the amount of data manageable Furthermore, techniques from data compression have many more applications beyond compression, for instance data clustering, classification and time series prediction In terms of empirical performance statistical data compression ...

Visual Data Compression for Multimedia Applications

The video-compression techniques can then be classified into the following four classes: waveform, object-based, model-based, and fractal coding techniques The aim of this paper is to provide the reader with a tutorial on major visual data-compression techniques ...

Improving the scalability of hyperspectral imaging ...

decreasing the amount of data to be exchanged could improve the scalability and parallel performance In this paper, we propose a new framework based on intelligent utilization of wavelet-based data compression techniques ...

Application of Data Compression to the MIL-STD-1553 Data Bus

have developed several lossless data compression algorithms suitable for implementation in real-time, safety and mission critical systems The data compression algorithms that will be presented meet several criteria that make them suitable for such applications These criteria include: 1 Lossless compression techniques ...