Abstract

Medical image data (Ultrasonography, Computed Tomography, Magnetic Resonance Imaging etc.) consumes maximum storage and utilize maximum bandwidth for transmission that often results in degradation of image quality. Due to these inherent issues in such type of images, compression is the only applicable technique explored in the due course of prior research work. Currently, there exists abundant research work on medical image compression considering lossy and lossless types, but the need of medical images to be compressed efficiently with optimal compression ratio is yet a question mark. This paper will perform an investigation of various techniques explored and discusses some of the efficient techniques explicitly among all the prior work. While reviewing the prior literatures, it was explored that although medical image compression is an emerging need, but it encounters higher dimensionality of challenges and complicatedness for catering the increasing demands of the medical science.

References

A Review of the Effective Techniques of Compression in Medical Image Processing

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Index Terms

Computer Science
Image Processing
Keywords
Medical Image Processing  Compression Techniques  Lossy and Lossless Compression