Abstract

Downsampling technique for intraframe coding is a new scenario for low bit rate coding. In the existing methods of downsampling technique, the alternate entire row or column of pixels are downsampling, which leads to more loss image quality during interpolation. Checkerboard pattern technique is proposed in downsampling process. Here we remove alternate pixel value same as chess board. Interpolation is a process of generating a value of a pixel based on its neighbors. We use adaptive weighted interpolation technique. JPEG-LS technique is to provide effective lossless and near lossless compression in upsampling and downsampling process. LOCO-I algorithm is used in JPEG-LS. By using this technique, the image quality is
A Novel Coding using Downsampling Technique in Video Intraframe

improved.

References


Index Terms

Computer Science

Image Processing
Keywords
Checkerboard Pattern  Jpeg-Is  Loco-i Algorithm  Low Bitrate Coding