

AN EFFECTIVE LOSSLESS COMPRESSION OF VIDEO DISPLAY FRAMES FOR MEDICAL IMAGE SEQUENCES

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Lossless image compression technique can be used effectively in reconstruction of image sequences possible from the compressed data. Here an efficient image compression scheme is developed based on super-spatial prediction of structural units with interframe coding to acquire higher compression ratio. This so called similar structure block prediction is motivated by motion prediction in video coding, attempting to find an optimal prediction of structure components within previously encoded image regions. Therefore, this paper proposes a method that combines the super spatial prediction, JPEG-LS and an interframe coding with motion vectors to enhance the compression performance. Since the interframe correlation between two adjacent images in a medical image sequence is usually not as high as that in a general video image sequence, the interframe coding is activated only when the interframe correlation is high enough. Finally LZ8 method is also used to enhance the compression ratio.