71. HIGH QUALITY COMPRESSION OF SCANNED DOCUMENT WITH AN ADVANCED HYBRID VIDEO CODING TECHNIQUE

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The aim of this paper is to delve into a promising mechanism & implementation of a method for efficient storage of scanned documents. There is a need for storing of scanning documents, images, etc as good as the originally written documents preserving the quality ofscanned document as well as storing it in minimal possible storage size. High quality documents generally take up lot of disc space and thus high quality compression of scanned documents has become more than important. The implementation method followed uses a hybrid pattern matching/ transform-based compression method for scanned documents. Using a regular video inter-frame prediction method like an algorithm for pattern matching, it is implemented for document encoding. The method followed, termed as advanced document coding (ADC), uses segments of the separate page(s) of the scanned document to make sequential a video frame, and then encoded with regular H.264/AVC. The performance of this method is superior to the other methods for scanned document compression giving a superior subjective quality.

Index Terms— Advanced document coding (ADC), H.264/AVC, pattern matching, scanned document compression.

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