

Title (en)
VIDEO CODING

Title (de)
VIDEOKODIERUNG

Title (fr)
CODAGE VIDEO

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Abstract (en)
[origin: WO9703516A1] Digitalized video images are compressed in several steps in order to provide a system for transmitting moving video pictures via narrow band channels, such as the telephone network. The system is based on an extension of the bit-plane coding technique to video sequences and lossy conditions. The compression technique can also be advantageously used in a lossless compression system. The system involves the steps of bit plane representation and skipping the least significant bit plane(s) (61), shifting the pixels (62), coding with a Gray code (65), the use of segmentation (63), and motion-estimation/motion compensation (66) and application of a transmit/not transmit/motion compensate (TX/NT/MC) procedure (67), exploiting of the temporal redundancy of two corresponding bit planes by means of an XOR operation (68) on two successive images, and a plane-by-plane application of an extended RLE1D technique (69). The RLE1D technique comprises coding a run of like binary symbols with one word, the run comprising a transition between the penultimate and ultimate binary symbol.

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