

ABSTRACT

VIDEO COMPRESSION USING AN ITERATIVE ERROR DATA CODING METHOD

An adaptive system (10) and method for data storage and communication is primarily used for the storage and transmission of large volumes of data, especially video data, over band-limited communication channels. The video coder (200) of the system (10) uses a prediction video signal which is subtracted from the input image to define a processing region in which image blocks of predetermined dimensions have large prediction error. The prediction image is successively improved by iteratively processing large error image blocks until the error is reduced below a predetermined threshold. At different processing iterations and image blocks, different compression techniques can be used to improve the overall system efficiency.

FIG. 1