ABSTRACT

SYSTEM AND METHOD FOR DETERMINING ENCODING PARAMETERS

Method for optimizing a video transmission in a constrained environment comprising a video coder adapted for coding the video data to be transmitted,, characterized in that it comprises at least one step of determining one or more compression parameters for the video coder considered so as to transmit said video data at a given throughput Di or for a given quality Qi by executing at least the following steps:

- define and use reference charts for said coder considered,
- predict for the part of the video sequence undergoing compression, and by means of said reference charts, compression parameters to be used, at least the quantization interval QP, by selecting a chart in the (QP, throughput) or (QP, PSNR) representation which for the targeted range of throughput Di or of quality Qi, is the closest in distance to said part of the sequence to be compressed, while complying with a given margin,
- update with an iterative method the prediction step so as to converge on the best choice of parametrization, said iteration method being composed of at least one compression step followed by a verification step,
- compress the video data to be transmitted with said parameters.

Figure 1 to be published

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