A METHOD AND SYSTEM FOR ADAPTIVE PRE-FILTERING FOR DIGITAL VIDEO SIGNALS

Abstract

A method for adaptive pre-filtering is disclosed, comprising the steps of: extracting tuning parameters from video encoding process; processing these tuning parameters to generate control parameters representative of the properties of the video data processed; coupling the control parameters to filter response; generating filter coefficients on selected filter response; and filtering the video data with the filter coefficients before video encoding. The filtering of video data is thus adapted to at least one or more tuning parameters of the video data and the encoding process. The filtering decreases the complexity of encoding by attenuation of high frequency, effectively decreasing the quantization step and reducing compression artifacts.

FIG. 1 accompanies the abstract.