A B S T R A C T

An image processor (112) to produce a local decoded image corresponding to an input image, a region partitioning module (114) to classify the local decoded image into a plurality of regions using a given parameter, a filter designing module (115) to design a filter coefficient for every classified region, a filter processor (116) to filter the local decoded image according to a corresponding filter coefficient for every classified region, a frame memory (113) to store a filtered image, a predictor (117) to produce a prediction image using a stored image, and an encoder (118) to output a parameter used for classification of the region and information of a filter coefficient every classified region as encoded data are provided.



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