

ABSTRACT

The present disclosure relates to intra- or inter-prediction for video encoding and decoding. For that purpose, an apparatus and methods obtain a reference sample and a subpixel offset value. A subpixel 4-tap interpolation filter is used to filter the reference sample to obtain a
5 predicted sample value. The filter coefficients c_0 , c_1 , c_2 , and c_3 of the subpixel 4-tap interpolation filter satisfy $c_0 = 16 - \frac{p}{2}$, $c_1 = 16 + 16 - \frac{p}{2}$, $c_2 = 16 + \frac{p}{2}$, and $c_3 = \frac{p}{2}$, with p being a fractional part of the value of the subpixel offset.