Title (en)
  PIXEL INTERPOLATING METHOD AND DEVICE

Title (de)
  PIXEL-INTERPOLATIONSVERFAHREN UND -EINRICHTUNG

Title (fr)
  INTERPOLATEUR DE PIXELS, ET PROCEDE

Publication
  EP 1851718 A2 20071107 (EN)

Application
  EP 06714502 A 20060217

Priority
  • JP 2006303363 W 20060217
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Abstract (en)
  [origin: WO2006090811A2] The n-tap filtering for generating interpolated pixels is converted into calculation of terms consisting of the difference and sum of the pixel values of adjoining pixels. When the difference is equal to or less than a predetermined value, the calculation related to the terms including the difference is omitted, thereby reducing the calculation amount in generating the interpolated pixels. In loop processing according to a flow chart of the pixel interpolating method, the reference pixels are accessed by one pixel per one loop processing for reading pixel values thereof, and the difference and sum of the pixel values are calculate using the adjoining pixel value already read one loop before, thereby interpolating the pixel values of consecutive pixels to be interpolated. Consequently, redundant reading of pixel values is avoided, with further beneficial effects on speedy generation of the interpolated pixels and reduction of the power consumption therein.

IPC 8 full level
  G06T 3/40 (2006.01); **H04N 19/00** (2014.01); **H04N 19/127** (2014.01); **H04N 19/132** (2014.01); **H04N 19/134** (2014.01); **H04N 19/136** (2014.01); **H04N 19/196** (2014.01); **H04N 19/51** (2014.01); **H04N 19/59** (2014.01); **H04N 19/625** (2014.01); **H04N 19/82** (2014.01); **H04N 19/91** (2014.01)

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