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Póth Miklós Marka Oreškovića 16 24000
Subotica ... so the performance is
improved in the stopband. A passband is
moderately attenuated, resulting in
image smoothing. ... Splines - A Perfect
Fit for Signal and Image Processing, IEEE
Signal Processing Magazine, November

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1999, pp. 22-38 [3] Robert G. Keys ...

Interpolation - dspGuru

In computer graphics and digital imaging, image scaling refers to the resizing of a digital image. In video technology, the magnification of digital material is known as upscaling or resolution enhancement.. When scaling a vector graphic image, the graphic primitives that make up the image can be scaled using geometric transformations, with no loss of image quality.

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Signal-image interpolation is normally used for several procedures, and they are hereto listed. When pixel-by-pixel correspondence has to be established for the purpose of matching images collected at different times using the same imaging modality (registration) or different imaging modalities (co-registration), interpolation finds

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immediate application in motion correction techniques.

Interpolation | Digital Signal Processing
The spectrum of the interpolated audio test signal is shown in Figure 12.12, where the top plot illustrates that after the upsampling, the audio test signal has a frequency of 16 kHz, along with image frequencies coming from $44.1 - 16 = 28.1$ kHz, $44.1 + 16 = 60.1$ kHz, $88.2 - 16 = 72.2$ kHz, and so on. The bottom graph describes the spectrum after the interpolation filter.

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The paper sets forth an improved edge-directed image interpolation algorithm with low time complexity which is the combination of Newton's method and edge-directed method.

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Get this from a library! Improved signal and image interpolation in biomedical applications : the case of magnetic resonance imaging (MRI). [Carlo Ciulla] -- "This book presents novel concepts supported through mathematics to create unique theories related to interpolation"--Provided by publisher.

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The images in Fig. 2.20 (a) through (d) are shown in 1250, 300, 150, and 72 dpi, respectively. Naturally the lower resolution images are smaller than the original. For example, the original image is of size 3692 x 2812 pixels, but the 72

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dpi image is an array of size 213 x 162.

An improved image interpolation algorithm ...

The zero-stuffing creates a higher-rate signal whose spectrum is the same as the original over the original bandwidth, but has images of the original spectrum centered on multiples of the original sampling rate. The lowpass filtering eliminates the images. 3.3.3 Why do interpolation by zero-stuffing?

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Single image super resolution with improved wavelet interpolation and iterative back-projection Boniface M. Ngocho, Elijah Mwangi School of Engineering, University of Nairobi. PO BOX 30197 Nairobi 00100, Kenya
Abstract : Spatial resolution of digital images is limited by practical considerations of digital imaging systems.

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Image scaling - Wikipedia

A new cubic convolution spline interpolation (CCSI) for both one-dimensional (1-D) and two-dimensional (2-D) signals is developed in order to subsample signal and image compression data.

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to as bandlimited interpolation because it interpolates between sample points by explicitly assuming that the original signal is bandlimited to less than half the sampling frequency. In addition to bandlimited interpolation, a variety of other interpolation procedures are commonly used. One, referred to as a zero-order hold, interpo-

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Improved Signal and Image Interpolation in Biomedical Applications: The Case of Magnetic Resonance Imaging [Carlo Ciulla] on Amazon.com. *FREE* shipping on qualifying offers. Advances have been made in improved signal and image interpolation that derive a unified framework, thus achieving improvement of the approximation properties of the interpolation function regardless of its dimensionality ...

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Image distortion reduction in the downscaling/expansion step is achieved by using a new image interpolation algorithm, whereas the image distortion in the data hiding step is reduced utilizing a new adjustable data hiding algorithm, which adaptively adjusts the level of tradeoff between data hiding capacity and image quality.

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