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## **Iterative Interpolation Super Resolution Image**

## Read Online Iterative Interpolation Super Resolution

### Image Reconstruction A

This book presents a novel and hybrid, computationally efficient, reconstruction scheme for solving the problem of super-resolution restoration of high-resolution images from sequences of geometrically warped, aliased and under-sampled low-resolution images. The scheme proposed is referred as the Iterative-Interpolation Super-Resolution (IISR) ...



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## **Iterative-Interpolation Super-Resolution Image ...**

The scheme proposed is referred as the Iterative-Interpolation Super-Resolution (IISR) ... The IISR technique addresses the problem of super-resolution image enhancement in terms of maintaining highest fidelity of reconstruction and a

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low computational cost to achieve  
maximum applicability of super-  
resolution to the real-world applications.

**Iterative-Interpolation Super-Resolution Image ...**

Super-Resolution is an image reconstruction technique that enhances a sequence of low-resolution images or

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video frames by increasing the spatial resolution of the images. Each of these...

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**Iterative-Interpolation Super-Resolution Image ...**

Index Terms—Single image super-resolution, iterative RKHS, thin-plate spline, Heaviside function I.

INTRODUCTION I MAGE super-resolution

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(SR), a quite active research field currently, is a process to estimate a high-resolution (HR) image from one or multiple low-resolution (LR) images. High-resolution means more details and better visibility. Due to

**Single image super-resolution via an iterative reproducing ...**

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The difference between interpolation and super resolution • Interpolation only involves upsampling the low-resolution image, which is often assumed to be aliased due to direct down-sampling. • Super resolution aims to address undesirable effects, including the resolution degradation, blur and noise effects.

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## **Introduction to Image Interpolation and Super Resolution**

Term “super-resolution” is typically used for a high-resolution image produced from several low-resolution noisy observations. In this paper, we consider the problem of high-quality interpolation of a single noise-free image.

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## **[PDF] Image Interpolation by Super-Resolution | Semantic ...**

2. SUPER-RESOLUTION METHOD Super-resolution method is typically used to restore a high-resolution image from several low-resolution noisy observations [4]. In this paper, we consider the interpolation of a single

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image. So, we will formulate the problem as  $Ax = y$ , (1) where  $x$  is the unknown high-resolution image (represented as a vector of pixel ...

## **Image Interpolation by Super-Resolution**

2. SUPER-RESOLUTION METHOD Super-resolution method is typically used to



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restore a high-resolution image from several low-resolution noisy observations [4]. In this paper, we consider the interpolation of a single image. So, we will formulate the problem as  $Ax = y$ , (1) where  $x$  is the unknown high-resolution image (represented as a

## **Image Interpolation by Super-**

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To preserve textures and clear edges, the image SR reconstruction is treated as an image progressive-iterative fitting procedure and achieved by iterative interpolation. Due to different features in different regions, we first employ the nonsubsampling contourlet transform (NSCT) to divide the image into smooth

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regions, texture regions, and edges.

## **A Single-Image Super-Resolution Method Based on ...**

Image super-resolution (SR) is a low-level computer vision task, which aims to reconstruct a high-resolution (HR) image from its low-resolution (LR) counterpart. It is inherently ill-posed

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Image Reconstruction A  
since multiple HR images may result in  
an identical LR image. To address this  
problem, numerous image SR methods  
have been proposed, includ-

## **Feedback Network for Image Super-Resolution**

Iterative-Interpolation Super-Resolution  
Image Reconstruction: A

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(Studies in Computational Intelligence  
(195)) [Bannore, Vivek] on Amazon.com.  
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Iterative-Interpolation Super-Resolution  
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(195))

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## **Iterative-Interpolation Super-Resolution Image ...**

The novel algorithm employs an iterative interpolation process which can be divided into two steps. Firstly, we map low resolution images into the high resolution grid, and use the new interpolation method based on improved

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Image Reconstruction A

NEDI to interpolate the grid to create the first approximation image.

## **Super-resolution image reconstruction using iterative NEDI**

...

In this paper, we present a novel iterative interpolation super-resolution algorithm based on the edge-directed

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interpolation algorithm (NEDI) and the iterative-interpolation super-resolution algorithm (IISR). Our proposed algorithm introduces the NEDI which has only been used for single-image interpolation in previous researches into multi-frame interpolation area of the IISR by way of ...



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**Super-resolution image  
reconstruction using iterative NEDI**

Super-resolution (SR) image reconstruction refers to a process that produces a high-resolution (HR) image from a sequence of low-resolution images that are noisy, blurred, and downsampled.

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## **Noniterative Interpolation-Based Super-Resolution ...**

Abstract: Image super-resolution (SR) aims to recover high-resolution images from their low-resolution counterparts for improving image analysis and visualization. Interpolation methods, widely used for this purpose, often result

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in images with blurred edges and blocking effects. More advanced methods such as total variation (TV) retain edge ...

## **LRTV: MR Image Super-Resolution With Low-Rank and Total ...**

For super-resolution (4K × 2K) displays, super-resolution technologies, which can

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upsample videos to higher resolution and achieve better visual quality, become more and more important currently. In this paper, an iterative enhanced super-resolution (IESR) system which is based on two-pass edge-dominated interpolation, adaptive enhancement,

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### **An iterative enhanced super-resolution system with edge...**

Get this from a library! Iterative-interpolation super-resolution image reconstruction : a computationally efficient technique. [Vivek Bannore] -- This book presents a novel and hybrid, computationally efficient, reconstruction scheme for solving the problem of super-

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resolution restoration of high-resolution  
images from sequences of ...

## **Iterative-interpolation super- resolution image ...**

The process of estimating a high-resolution (HR) image from one or multiple low-resolution (LR) images is often referred to as image super-

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resolution. According to the number of low-resolution images, image super-resolution can be divided into two categories: one is single-image super-resolution, and the other is multiple-image super-resolution.

**Super-resolution via a fast deconvolution with kernel ...**

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## Image Reconstruction A

Super resolution helps resolve this by generating high-resolution MRI from otherwise low-resolution MRI images. Media: super resolution can be used to reduce server costs, as media can be sent at a lower resolution and upscaled on the fly. Deep learning techniques have been fairly successful in solving the problem of image and video super ...



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