

Image Super Resolution Thesis

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Development of Image Super-resolution Algorithms in partial fulfillment of the requirements for the degree of Master of Technology by Mayank Agrawal (Roll 211CS1066) under the supervision of Prof. Ratnakar Dash Department of Computer Science and Engineering National Institute of Technology Rourkela Rourkela - 769 008, India

Development of Image Super-resolution Algorithms

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this work we would like to show methods of improving resolution of digital imagery without using a CCD (Charge Coupled Device) element with higher resolution. One way of achieving such goal is to combine multiple shifted low resolution images into one with higher resolution. Such a process is usually denoted as Super Resolution (SR).

Diploma Thesis Resolution improvement of digitized images

M. Shimizu, T. Yano, and M. Okutomi, Super-Resolution under Image Deformation, International Conference on Pattern Recognition, 2004. T. Gotoh and M. Okutomi, Color Super Resolution from a Single-CCD, The IEEE Workshop on Color and Photometric Methods in Computer Vision, 2003. Super-resolution Matlab GUI by Patrick Vandewalle at LCAV, EPFL

Super-Resolution | Reproducible Research

SUPERRESOLUTION IN IMAGE SEQUENCES A Thesis Presented by Andrey Krokhin to The Department of Electrical and Computer Engineering ... image. Resolution is a measure of frequency content in an image: high-resolution (HR) images are bandlimited to a larger frequency range than low-resolution (LR)

SUPERRESOLUTION IN IMAGE SEQUENCES - ece.tufts.edu

SUPER-RESOLUTION VIA IMAGE RECAPTURE AND BAYESIAN EFFECT MODELING by Neil Toronto A thesis submitted to the faculty of Brigham Young University in partial fulfillment of the requirements for the degree of

Super-Resolution via Image Recapture and Bayesian Effect ...

IMAGE SUPER-RESOLUTION VIA SPARSE REPRESENTATION BY JIANCHAO YANG THESIS Submitted in partial fulfillment of the requirements for the degree of Master of Science in Electrical and Computer Engineering in the Graduate College of the University of Illinois at Urbana-Champaign, 2010 Urbana, Illinois Adviser: Professor Thomas S. Huang

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Abstract: Single image super-resolution is the task of inferring a high-resolution image from a single low-resolution input. Traditionally, the performance of algorithms for this task is measured using pixel-wise reconstruction measures such as peak signal-to-noise ratio (PSNR) which have been shown to correlate poorly with the human perception of image quality.

EnhanceNet: Single Image Super-Resolution Through ...

1 Image Super-Resolution via Sparse Representation Jianchao Yang, Student Member, IEEE, John Wright, Student Member, IEEE Thomas Huang, Life Fellow, IEEE and Yi Ma, Senior Member, IEEE Abstract—This paper presents a new approach to single-image superresolution, based on sparse

signal representation. Research

Image Super-Resolution via Sparse Representation

Here the purpose of this thesis will be presented, the terms image fusion and super resolution will be explained, what usage they might have with a few ex-amples. In this thesis, several methods for image fusing and super-resolution has been studied, the rst study is related to fuse two characteristically dif-

Methods and algorithms for image fusion and super resolution

This thesis addresses the problem of image super-resolution from a low resolution image. Spatial resoltuion of images are restricted by the size of CMOS sensors. Spatial resolution can be increased by increasing no of COMS sensors resulting in decrease in size of CMOS sensors which cause shot noise. In this thesis attempts have been made to enhance the spatial resolution of different images.

Development of Image Super-resolution Algorithms - ethesis

Linear interpolation revitalized New edge directed interpolation (NEDI) code Signal Discrete Sinc-interpolation in DCT Domain code Directional filtering and data fusion DFDF Wavelet-based texture image interpolation wt_interp Fast and robust superresolution (SR) toolbox UCSC-SR...

Image Processing project-Gradient-Image Interpolation and ...

need for developing efficient software solutions to image super-resolution. This thesis addresses the problem of increasing spatial resolution of given LR image to obtain HR image through super-resolution techniques. 1.2 TYPES OF IMAGE RESOLUTION . Image resolution is one of the practically adopted metric to express the quality of the

CHAPTER 1

3.11 Multi-frame color super-resolution implemented on a real data (Bookcase) se-quence. (a) shows one of the input low-resolution images of size $[75 \times 45 \times 3]$ and (b) is the Shift-and-Add result of size $[300 \times 180 \times 3]$, increasing resolution by a factor of 4 in each direction.

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