

Image Super Resolution Survey

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Why Use High Resolution Images**Single Image Super-Resolution via Sparse Representations - Tomer Peleg** ~~Image Super Resolution Survey~~

Deep Learning for Image Super-resolution: A Survey Zhihao Wang, Jian Chen, Steven C.H. Hoi Image Super-Resolution (SR) is an important class of image processing techniques to enhance the resolution of images and videos in computer vision. Recent years have witnessed remarkable progress of image super-resolution using deep learning techniques.

~~Deep Learning for Image Super-resolution: A Survey~~

Super-resolution is the process of generating a raster image with a higher resolution than its source. The source can consist of one or more images or frames. This paper focuses on single-frame super-resolution, meaning that the source is a single raster image.

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The shortcomings in commonly used kernel-based super-resolution drive the study of improved super-resolution algorithms of higher quality. In the past years a wide range of very different approaches has been taken to improve super-resolution. This paper compares approaches to high quality super-resolution by looking at theoretical backgrounds and practical results. Strengths and weaknesses are ...

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Abstract: Image Super-Resolution (SR) is an important class of image processing techniques to enhance the resolution of images and videos in computer vision. Recent years have witnessed remarkable progress of image super-resolution using deep learning techniques.

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Image Super Resolution A huge variety of image SR techniques have been proposed; see survey papers [33, 34,35] for more details.

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Fig. 1: Hierarchically-structured taxonomy of this survey. Image super-resolution (SR), which refers to the process of recovering high-resolution (HR) images from low-resolution (LR) images, is an important class of image processing techniques in computer vision and image processing.

~~Deep Learning for Image Super-resolution: A Survey~~

Abstract—Image Super-Resolution (SR) is an important class of image processing techniques to enhance the resolution of images and videos in computer vision. Recent years have witnessed remarkable progress of image super-resolution using deep learning

~~† Deep Learning for Image Super-resolution: A Survey~~

Abstract: Single image super-resolution has attracted increasing attention and has a wide range of applications in satellite imaging, medical imaging, computer vision, security surveillance imaging, remote sensing, objection detection, and recognition.

~~Deep Learning Based Single Image Super-resolution: A Survey~~

Super-Resolution is estimation of a high-resolution image from an image or several low resolution images. Popular techniques in the field of enhancing images can be used to remove noise or blurring. In this paper, an overview of super resolution methods has been presented.

~~A Survey on Super-Resolution Methods for Image Reconstruction~~

Keywords: Image super-resolution, convolutional neural network, high-resolution image, low-resolution image, deep learning. 1 Introduction Single image super-resolution (SISR) aims to obtain high-resolution (HR) images from a low-resolution (LR) im-age. It has practical applications in many real-world prob-lems, where certain restrictions present in image or video such as bandwidth, pixel size ...

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Super resolution Survey. List of reviewing papers. SRCNN_2014_ECCV_Learning a Deep Convolutional Network for Image Super-Resolution; SRCNN_2016_PAMI_Image Super-Resolution Using Deep Convolutional Networks review; CSCN_2015_ICCV_Deep Networks for Image Super-Resolution with Sparse Prior

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The key objective of super-resolution (SR) imaging is to reconstruct a higher-resolution image based on a set of images, acquired from the same scene and denoted as 'low-resolution' images, to overcome the limitation and/or ill-posed conditions of the image acquisition process for facilitating better content visualization and scene recognition.

~~A survey on super-resolution imaging | SpringerLink~~

Abstract The shortcomings in commonly used kernel-based super-resolution drive the study of improved super-resolution algorithms of higher quality. In the past years a wide range of very different approaches has been taken to improve super-resolution. This paper compares approaches to high quality super-resolution by looking at theoretical backgrounds and practical results.

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Enhancing the quality of image is a continuous ongoing process. For some applications For some applications Image super resolution-A survey - IEEE Conference Publication

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Therefore, as a medium for people to obtain information, images have become more and more important. With the fast development of deep convolution neural networks (DCNNs), Single-Image Super-Resolution (SISR) becomes one of the techniques that have made great breakthroughs in recent years. In this paper, we give a brief survey on the task of SISR.

~~A Survey of Image Super Resolution Based on CNN | SpringerLink~~

Improving image quality has always been an issue of image technology. Enhancing the quality of image is a continuous ongoing process. For some applications it becomes essential to have best quality of image such as in forensic department, where in

~~(PDF) Image Super Resolution A Survey | Amisha Shah ...~~

Image processing sub branch that specifically deals with the improvement, of images and videos, resolution without compromising the detail and visual

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effect but rather enhances the two, is known as Super Resolution. Multiple (multiple input images and one output image) or single (one input and one output) low resolution images are converted to high resolution.

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