

# Compressive Image Super Resolution

Infrared Image Super Resolution by Combining Compressive CiteSeerX — Compressive Image Super-resolution Lossless Image Compression through Super-Resolution arXiv Low-Rate Image Compression With Super-Resolution Learning Super-resolution AFM imaging based on compressive sensing An Image Super-Resolution Scheme Based on Compressive Lossless Image Compression through Super-Resolution | DeepAI Compressive Image Super-resolution | Request PDF Single image super-resolution based on compressive sensing Bing: Compressive Image Super Resolution Rethinking Data Augmentation for Image Super-resolution: A Hyperspectral Imagery Super-Resolution by Compressive Compressive image super-resolution - INFONA Compressive coded aperture superresolution image Compressive Image Super Resolution A Review of Image Super-Resolution | Paperspace Blog Compressive Image Super Resolution Compressive spectral image super-resolution by using Open Source meets Super Resolution, part 1 Image Super-Resolution - GitHub Pages

## Infrared Image Super Resolution by Combining Compressive

distribution of outputs, as in a lossless compression method. Super-Resolution. Super-resolution (SR) is a

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task to construct a high-resolution image given a low-resolution image [6,10,13,20,26,28,29,34,44,45,48,53,56]. Recent works have advanced the state-of-the-art performance with the advances

### **CiteSeerX — Compressive Image Super-resolution**

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### **Lossless Image Compression through Super-Resolution arXiv**

Compression through super-resolution shares components with existing deep lossless image compression methods [31, 16], yet enjoys several additional advantages. Our neural network is lightweight and efficient. Each set of four output pixels is independent of all other outputs at the same level; hence super-resolution is easily performed in parallel.

### **Low-Rate Image Compression With Super-Resolution Learning**

The super-resolution imaging is a technique that aims to obtain a high-resolution image from a low-resolution image or a low-resolution data . It is widely

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used in video surveillance, image printing, criminal investigation analysis, medical image processing, satellite imaging and other fields.

### **Super-resolution AFM imaging based on compressive sensing**

Abstract — This paper proposes a new algorithm to generate a super-resolution image from a single, low-resolution input without the use of a training data set. We do this by exploiting the fact that the image is highly compressible in the wavelet domain and leverage recent results of compressed sensing (CS) theory to make an accurate estimate of the original high-resolution image.

### **An Image Super-Resolution Scheme Based on Compressive**

Abstract. Image super-resolution (SR) reconstruction has been an important research fields due to its wide applications. Although many SR methods have been proposed, there are still some problems remain to be solved, and the quality of the reconstructed high-resolution (HR) image needs to be improved.

### **Lossless Image Compression through Super-Resolution | DeepAI**

Following the theory of compressed sensing, the authors in [42] propose instead a compressive image super-resolution framework, where they enforce the constraint that the HR image be sparse in the

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Image super-resolution based on compressive sensing  
Image super-resolution based on compressive sensing  
Gu, Ying; Zhu, Xiuchang 2011-10-01 00:00:00

ABSTRACT Based on Compressive Sensing, we introduce sparse signal representation theory to modify the local geometric similarity model and construct sparse geometric similarity representation. Based on the modified model we can estimate the

## **Single image super-resolution based on compressive sensing**

This paper proposes a new algorithm to generate a super-resolution image from a single, low-resolution input without the use of a training data set. We do this by exploiting the fact that the image is highly compressible in the wavelet domain and leverage recent results of compressed sensing (CS) theory to make an accurate estimate of the original high-resolution image.

## **Bing: Compressive Image Super Resolution**

Darabi, S. Compressive image super-resolution. In Proceedings of the 2009 Conference Record of the Forty-Third Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, USA,

## **Rethinking Data Augmentation for Image Super-resolution: A**

Image Super Resolution refers to the task of enhancing the resolution of an image from low-resolution (LR) to high (HR). It is popularly used in the following applications: Surveillance: to detect, identify, and perform facial recognition on low-resolution images obtained from security cameras.

## **Hyperspectral Imagery Super-Resolution by Compressive**

(LR) image patch into its corresponding ground-truth high resolution (HR) image patch (Figure 1). By having partially LR and partially HR pixel distributions with a random ratio in a single image, CutBlur enjoys the regularization effect by encouraging a model to learn both “how” and “where” to super-resolve the image. One nice side

## **Compressive image super-resolution - INFONA**

image which preserves more informative content after the down-sampling process. The output down-sampled image is then encoded and decoded through an image compression network. Then, super-resolution network can generate the full resolution image. The structure of CR and SR network is depicted as Figure 2. We implement the SR network based on deep back-

## **Compressive coded aperture superresolution image**

Image Super-Resolution (ISR) The goal of this project is to upscale and improve the quality of low resolution images. This project contains Keras implementations of different Residual Dense Networks for Single Image Super-Resolution (ISR) as well as scripts to train these networks using content and adversarial loss components.

## **Compressive Image Super Resolution**

Abstract: In this paper we address the problem of super resolution in remote sensing images from a single low resolution image without using an external database. This method uses the techniques of Compressive Sensing (CS), Structural Self Similarity and Total Variation (TV) Minimization. The approach is based on sparse and redundant representations over trained dictionaries.

## **A Review of Image Super-Resolution | Paperspace Blog**

This paper describes the design of coded aperture masks for super- resolution image reconstruction from a single, low-resolution, noisy observation image. Based upon recent theoretical work on Toeplitz-structured matrices for compressive sensing, the proposed masks are fast and memory-efficient to compute.

## **Compressive Image Super Resolution**

In order to overcome this difficulty, compressive sensing (CS)-based single image super-resolution methods have gained enough attention in the recent years, whereby the high-frequency details of Sensors 2015 , 15 2043

### **Compressive spectral image super-resolution by using**

Super-resolution (SR) is a technique for constructing a high-resolution (HR) image from a collection of observed low-resolution (LR) images. SR increases high frequency components and removes compression artifacts.

### **Open Source meets Super Resolution, part 1**

In contrast, the proposed methodology estimates the high-resolution image directly from the low-resolution compressive measurements by using a CS algorithm. High correlation exists across the spectral bands, so considering these bands separately will not fully exploit the correlation across them, resulting in spectral artifacts in the super-resolved multispectral images.

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challenging the brain to think better and faster can be undergone by some ways. Experiencing, listening to the extra experience, adventuring, studying, training, and more practical comings and goings may assist you to improve. But here, if you do not have satisfactory mature to get the event directly, you can bow to a completely simple way. Reading is the easiest activity that can be finished everywhere you want. Reading a cassette is also kind of augmented solution taking into account you have no tolerable maintenance or period to acquire your own adventure. This is one of the reasons we comport yourself the **compressive image super resolution** as your friend in spending the time. For more representative collections, this photograph album not and no-one else offers it is valuably scrap book resource. It can be a fine friend, essentially fine friend later than much knowledge. As known, to finish this book, you may not compulsion to get it at with in a day. decree the undertakings along the daylight may make you air thus bored. If you attempt to force reading, you may pick to reach new entertaining activities. But, one of concepts we want you to have this photo album is that it will not create you mood bored. Feeling bored when reading will be on your own unless you accomplish not like the book.

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