Compressive Image Super Resolution

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Compressive Image Super Resolution

Compressive image super-resolution 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 ...

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An optimization problem for recovering high-resolution spectral images was proposed. • Results of the proposed methodology outperform the ones of traditional methodology. • Matrices are rearranged as a block diagonal in order to enhance the inversion. • The optimization unifies the compressive sensing and super-resolution techniques.

Compressive spectral image super-resolution by using ...

In this paper, we propose a single image Super-Resolution (SR) method based on Compressive Sensing (CS) and Improved Total Variation (TV) Minimization Sparse Recovery. In the CS framework, low-resolution (LR) image is treated as the compressed version of high-resolution (HR) image.

Single image super-resolution based on compressive sensing ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): 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 ...

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Compressive Coded Aperture Superresolution Image Reconstruction Roummel F. Marcia and Rebecca M. Willett Department of Electrical and Computer Engineering Duke University Research supported by DARPA and ONR ICASSP 2008: Compressive coded aperture aperture superresolution image reconstruction Slide 0

Compressive Coded Aperture Superresolution Image ...

image post-processing techniques are employed to improve the spatial resolution of the HSI with less spectral distortions. To improve the image spatial resolution, the super -resolution (SR) technique is employed, which was firstly proposed by Tsai and Huang [2]. The SR technique is a process of combining one or multiple

Hyperspectral Imagery Super-Resolution by Compressive ...

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Compressive coded aperture superresolution image ...

years, however, it has become possible to perform super resolution on a single image. This thesis sought to apply Gabor Wavelets and Compressive Sensing to single image super resolution of digital images of natural scenes. The technique applied to images was then extended to allow the super resolution of a point cloud. (66 pages)

Compressive Point Cloud Super Resolution

Rapid real-time generation of super-resolution hyperspectral images through compressive sensing and GPU Marwa Moustafa a, Hala M. Ebeid b, Ashraf Helmy , Taymoor M. Nazmy and Mohamed F.

Tolbab aData Reception, Analysis and Receiving Station Affairs, National Authority for Remote Sensing and Space Science, Cairo, Egypt; bFaculty of Computer and Information Sciences, Ain Shams University, Cairo ...

Rapid real-time generation of super-resolution ...

Image Super-Resolution based on Dictionary Learning and Anchored Neighborhood Regression with Mutual Inconherence [PDF] Yulun Zhang, Kaiyu Gu, Yongbing Zhang, Jian Zhang, Qionghai Dai IEEE International Conference on Image Processing (ICIP2015), pp. xxxx-xxxx, Quebec, Canada, Sep. 2015. (Poster)

Jian Zhang's Homepage

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

Compressive sensing super resolution from multiple observations with application to passive millimeter wave images Wael AlSaafin, Salvador Villena, Miguel Vega, Rafael Molina, Aggelos K Katsaggelos Electrical Engineering and Computer Science

Compressive sensing super resolution from multiple ...

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 coded aperture superresolution image ...

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.

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generate a super-resolution image from a single, low-resolution input along with the use of a training data set. Super-resolution image reconstruction is currently an active area of research, as it offers the promise of overcoming some of the inherent resolution limitations of the imaging systems. In this paper, super-

ISSN (Online) 2319-1724 : Volume 1 , Issue 4 , February ...

Reconstruction of a high-resolution image from a single image or a sequence of degraded, low-resolution images of the same scene, acquired from different views or at different conditions, is a challenging problem. Diverse novel and effective super-resolution approaches are being pursued in various remote-sensing applications.

Special Issue "Image Super-resolution in Remote Sensing"

In recent years, however, it has become possible to perform super resolution on a single image. This thesis sought to apply Gabor Wavelets and Compressive Sensing to single image super resolution of digital images of natural scenes. The technique applied to images was then extended to allow the super resolution of a point cloud.

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