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Image Super Resolution Via Sparse

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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

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Image Super-Resolution via Sparse Representation

Image Super-Resolution Via Sparse Representation Abstract: This paper presents a new approach to single-image superresolution, based upon sparse signal representation. Research on image statistics suggests that image

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patches can be well-represented as a sparse linear combination of elements from an appropriately chosen over-complete dictionary.

Image Super-Resolution Via Sparse Representation - IEEE ...

Image Super-Resolution via Sparse Representation Jianchao Yang, Student

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Member , IEEE, John Wright, Student
Member , IEEE Thomas Huang, Life
Fellow , IEEE and Yi Ma, Senior Member ,
IEEE

(PDF) Image Super-Resolution Via Sparse Representation

Image Super-Resolution via Sparse
Representation Stanley Chan Purdue

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University ECE/STAT 695 Spring 2018
1/1. Image Super-resolution 2 for adaptively choosing the most relevant reconstruction neighbors based on sparse coding, avoiding over- or under-fitting of [11] and producing superior results.

Image Super-Resolution via Sparse

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Existing methods for image super-resolution (SR) usually use ℓ_1 -regularization and ℓ_2 -regularization to emphasize the sparsity and the correlation, respectively. In order to coordinate the sparsity and correlation synthetically, this paper proposes an adaptive sparse coding based super-

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resolution method, named ASCSR method, by means of establishing a regularization model, which ...

Image super-resolution via adaptive sparse representation ...

IEEE TRANSACTIONS ON IMAGE PROCESSING, VOL. 19, NO. 11, NOVEMBER 2010 2861 Image Super-

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Resolution Via Sparse Representation
Jianchao Yang, Student Member, IEEE,
John Wright, Member, IEEE, Thomas S.
Huang, Fellow, IEEE, and Yi Ma, Senior
Member, IEEE Abstract—This paper
presents a new approach to single-
image superresolution, based upon
sparse signal representation.

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Image Super-Resolution Via Sparse Representation

Therefore, the sparse representation of a low resolution image patch can be applied with the high resolution image patch dictionary to generate a high resolution image patch. The learned dictionary pair is a more compact representation of the patch pairs,

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compared to previous approaches, which simply sample a large amount of image patch pairs, reducing the computational cost substantially.

Image Super-Resolution via Sparse Representation ...

Sparse representation has recently attracted enormous interests in the field

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of image super-resolution. The sparsity-based methods usually train a pair of global dictionaries. However, only a pair of global dictionaries cannot best sparsely represent different kinds of image patches, as it neglects two most important image features: edge and direction.

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Image Super-Resolution Based on Sparse Representation via ...

Hyperspectral image super-resolution
via non-local sparse tensor factorization

Renwei Dian, Leyuan Fang, Shutao Li

College of Electrical and Information
Engineering, Hunan University

drw@hnu.edu.cn,

fangle yuan@gmail.com,

Access Free Image Super Resolution Via Sparse Representation

shutaoli@hnu.edu.cn Abstract

Hyperspectral image (HSI) super-resolution, which fuses

Hyperspectral Image Super-Resolution via Non-Local Sparse ...

Multimodal Image Super-Resolution via Joint Sparse Representations Induced by Coupled Dictionaries Abstract: Real-

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world data processing problems often involve various image modalities associated with a certain scene, including RGB images, infrared images, or multispectral images.

Multimodal Image Super-Resolution via Joint Sparse ...

Robust Single Image Super-Resolution

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via Deep Networks With Sparse Prior -
karimshahi/SR-via-DL-Sparse-prior

Robust Single Image Super- Resolution via Deep Networks ...

Therefore, the sparse representation of a low-resolution image patch can be applied with the high-resolution image patch dictionary to generate a high-

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resolution image patch. The learned dictionary pair is a more compact representation of the patch pairs, compared to previous approaches, which simply sample a large amount of image patch pairs [1], reducing the computational cost substantially.

Image super-resolution via sparse

Access Free Image Super Resolution Via Sparse Representation | IEEE ...

Image super-resolution via sparse representation. [PDF|Project] Jianchao Yang, John Wright, Thomas Huang, and Yi Ma. IEEE Transactions on Image Processing (TIP), vol. 19, issue 11, 2010. Image super-resolution: historical overview and future challenges. Jianchao Yang and ...

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Jianchao Yang's home page - IFP Group at UIUC. - Home

recovered high-resolution image is competitive or even superior in quality to images produced by other SR methods.

1. Introduction Conventional approaches to generating a super-resolution (SR) image require multiple

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low-resolution images of the same scene, typically aligned with sub-pixel accuracy. The SR task is cast as the inverse problem of

Image Super-Resolution as Sparse Representation of Raw ...

Single-Image Super-resolution Using Sparse Regression and Natural Image

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Prior Kwang In Kim and Younghee Kwon
Abstract—This paper proposes a framework for single-image super-resolution. The underlying idea is to learn a map from input low-resolution images to target high-resolution images based on example pairs of input and output images.

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Single-Image Super-resolution Using Sparse Regression and ...

Image super-resolution via sparse representation. IEEE Transactions on Image Processing (TIP), vol. 19, issue 11, 2010. [3] Jianchao Yang, John Wright, Thomas Huang, and Yi Ma. Image super-resolution as sparse representation of raw image patches. IEEE Conference on

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Computer Vision and Pattern
Recognition (CVPR), 2008. Return to
Jianchao Yang's ...

Image Super-resolution via Patch- wise Sparse Recovery

[1] Yang, Jianchao and Wright, John and
Huang, Thomas S and Ma, Yi, Image
super-resolution via sparse

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representation, IEEE trans. image processing 2010. [paper] [Code] (SCSR: Classical sparsity-based SISR method - use sparse coding technique to learn low-resolution and high-resolution dictionaries.)

GitHub - YapengTian/Single-Image-Super-Resolution: A ...

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the sharpness of an image to obtain super-resolution images. Xie et al. proposed a method via an example-based strategy which divides the high-frequency patches of a low-resolution image into different classes [69]. This method can accelerate image super-resolution procedure. Fernandez-Granda and

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