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Image Super Resolution Via Sparse

A. Generic Image Super-Resolution from Sparsity 1) Local model from sparse representation: Similar to the patch-based methods mentioned previously, our algorithm tries to infer the high-resolution image patch for each low-resolution image patch from the input.

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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 ...

This paper presents a new approach to single-image superresolution, based on

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sparse signal representation. Research on image statistics suggests that image patches can be wellrepresented as a sparse linear combination of elements from an appropriately chosen over-complete dictionary.

Image Super-Resolution via Sparse Representation ...

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Image Super-resolution 2 for adaptively choosing the most relevant reconstruction neighbors based on sparse coding, avoiding over- or under-fitting of and producing superior results. However, sparse coding over a large sampled image patch database directly is too time-consuming.

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Image Super-Resolution via Sparse Representation

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

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(PDF) Image Super-Resolution Via Sparse Representation

YANG et al.: IMAGE SUPER-RESOLUTION VIA SPARSE REPRESENTATION 2865

given by these coefficients, allowing solutions that are not perfectly sparse, but better satisfy the reconstruction constraints.

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Therefore, Yang et al. improved this method by training the compact dictionary pairs rather than using the raw image patches, and named the improved method as sparse coding based super-resolution (SCSR). It trained the LR dictionary D_{LR} and HR dictionary

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Dhfrom a collection of training images with a joint dictionary training method.

Image super-resolution via adaptive sparse representation ...

Multimodal Image Super-Resolution via Joint Sparse Representations Induced by Coupled Dictionaries Abstract: Real-world data processing problems often

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involve various image modalities associated with a certain scene, including RGB images, infrared images, or multispectral images.

Multimodal Image Super-Resolution via Joint Sparse ...

In,, Yang et al. utilized sparse signal representation to develop a novel

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method for single image super-resolution. The authors first sought a sparse representation for each patch of the low-resolution image and computed corresponding coefficients, then generated the high-resolution image via the computed coefficients.

Single image super-resolution via

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an iterative reproducing ...

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 Thomas Huang. ...

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Jianchao Yang's home page

sparse representation of the low-resolution image patch can well reconstruct its high-resolution counterpart, we train two dictionaries for the low- and high-resolution image patches. The learned dictionary pair is a compact representation adapted to the

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natural images of interest, which leads to state-of-the-art single image super-resolution

Image Super-resolution via Patch-wise Sparse Recovery

CVPR 2008. J. Yang et al. Image super-resolution via sparse representation. IEEE Transactions on Image Processing,

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Vol 19, Issue 11, pp2861-2873, 2010 For any problems, send email to jyang29@uiuc.edu ===== Demo_SR.m: demo code for image super-resolution via sparse recovery 1.

GitHub - tingfengainiaini/sparseCodingSuperResolution

This paper presents a novel image super-

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resolution approach via dual-dictionary learning and sparse representation, which can reconstruct lost high-frequency details by a two-layer progressive way utilizing distinct dictionaries.

IMAGE SUPER-RESOLUTION VIA DUAL-DICTIONARY LEARNING AND

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To overcome this difficulty, super-resolution (SR) technique is proposed to reconstruct a latent HR image from one or several low resolution (LR) images from the same scene. This technique has been shown great potential in many practical applications such as digital entertainment, medical imaging,

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criminal investigation, and satellite remote sensing [1] .

Fast single image super-resolution using sparse Gaussian ...

Sparse coding is combined with the Direction and Edge dictionaries to realize super-resolution. The above single-image super-resolution can restore the

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faithful high-frequency details, and the POCS is convenient for incorporating any kind of constraints or priors. Therefore, we combine the two methods to realize multiframe super-resolution.

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

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 ...

Robust Single Image Super-Resolution
via Deep Networks With Sparse Prior
Single image super-resolution (SR) is an
ill-posed problem, which tries to recover

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a high-resolution image from its low-resolution observation.

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

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

Renwei Dian, Leyuan Fang, Shutao Li
College of Electrical and Information

Read Book Image Super Resolution Via Sparse Representation

Engineering, Hunan University

drw@hnu.edu.cn,

fangle yuan@gmail.com,

shutaoli@hnu.edu.cn Abstract

Hyperspectral image (HSI) super-resolution, which fuses

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