
Single Image Super Resolution Using Gaussian Process Regression

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[Photo-Realistic Single Image Super-Resolution Using a ...](#)

What is super resolution? The estimation of a high-resolution (HR) image from a single low-resolution (LR) counterpart is referred to as super-resolution (SR). In other words, LR is a single image input,

HR is the ground truth, and SR is the predicted high resolution image. When applying ML/DL solutions, the LR images are generally the down ...

[GitHub - YapengTian/Single-Image-Super-Resolution: A ...](#)

Abstract: Despite the breakthroughs in accuracy and speed of single image super-resolution using faster and deeper convolutional neural networks, one central problem remains largely unsolved: how do we recover the finer

texture details when we super-resolve at large upscaling factors? The behavior of optimization-based super-resolution methods is principally driven by the choice of the ...

[Single Image Super-Resolution Using Deep Learning - MATLAB ...](#)

Single-image super-resolution refers to the task of constructing a high-resolution enlargement of a single low-resolution image. This problem is inherently ill-posed as there are

generally multiple high-resolution images that can be reduced to the same low-resolution image.

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

Despite the breakthroughs in accuracy and speed of single image super-resolution using faster and deeper convolutional neural networks, one central problem remains largely unsolved: how do we recover the finer texture details when we super-resolve at large upscaling factors?

Single image super resolution using learned wavelets-Block ...

Single image super-resolution (SR), also known as image scaling up or image enhancement, aims at estimating a high-resolution (HR) image from a low-resolution (LR) observed image.

Real-Time Single Image and Video Super-Resolution Using an ...

Single image super-resolution (SR) aims to find the corresponding high-resolution (HR) estimation for a given low-resolution (LR) image. This task is challenging due to its ill-posed nature.

Single Image Super Resolution Using GANs — Keras | by ...

3 Single image super resolution using learned waveletsBlock - wavelet method

The method explained above needs different training set for super resolving low resolution images of different sizes. For example, to super resolve an image of size 128x128 into 256x256, one needs training set images of size 256x256.

Photo-Realistic Single Image Super-Resolution Using a ...

Super-resolution imaging - Wikipedia

Despite the breakthroughs in accuracy and speed of single image super-resolution using faster and deeper convolutional neural networks, one central problem remains largely unsolved: how do we recover the finer texture details when we super-resolve at large upscaling factors?

The behavior of optimization-based super-resolution methods is principally driven by the choice of the objective ...

1 Fast Single Image Super-resolution using a New ...

Image super resolution can be defined as increasing the size of small images while keeping the drop in quality to minimum, or restoring high resolution images from rich details obtained from low...

An Evolution in Single Image Super Resolution using Deep ...

Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network CVPR 2016

• alexjc/neural-enhance This means that the super-resolution (SR) operation is performed in HR space. Ranked #1 on Video Super-Resolution on Xiph HD - 4x upscaling

Single image super resolution using local smoothness and ...

single image super-resolution using faster and deeper convolutional neural networks, one central problem remains largely unsolved: how do we recover the finer texture details when we super-resolve at large upscaling factors? The behavior of optimization-based super-resolution methods is principally driven by the choice of the objective function.

Image Super-Resolution | Papers With Code

Single-Image Super-Resolution Using Sparse Regression and Natural Image Prior 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.

Single Image Super Resolution Using Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network [How Super Resolution Works](#)
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[Image Upscaling using AI | Super Resolution Tutorial](#)
[proSR: Deep Learning for Image Super-Resolution](#) [Can you enhance that? Single Image Super-Resolution](#) — Katarzyna Kańska
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Photo-Realistic Single Image Super-Resolution Using a ...
Abstract Recently, convolutional neural network has been employed to obtain better performance in single image super-resolution task. Most of these models are trained and evaluated on synthetic datasets

in which low-resolution images are synthesized with known bicubic degradation and hence they perform poorly on real-world images.
Single-Image Super-resolution Using Sparse Regression and ...
[Single Image Super-Resolution Using Deep Learning Introduction](#). Super-resolution is the process of creating high-resolution images from low-resolution images. This... The VDSR Network. VDSR is a convolutional neural network architecture designed to perform single image super-resolution... [Download ...](#)
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A reconstruction-based single image super resolution method is presented. Local smoothness and nonlocal self-similarity priors are incorporated in our model. The Split Bregman Iteration is imitated to solve the L1-regularized problem. The proposed method can achieve higher quality results.
[Photo-Realistic Single Image Super-Resolution Using a ...](#)
This technique, which requires the presupposition that all the light comes from a single source, is at the basis of what has become known as super-resolution microscopy, e.g. stochastic optical reconstruction microscopy (STORM),

where fluorescent probes attached to molecules give nanoscale distance information.

Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network How Super Resolution Works

EnhanceNet: Single Image Super-Resolution Through Automated Texture Synthesis
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Unpaired Image Super-Resolution using Pseudo-Supervision. CVPR, 2020. [71] Givi Meishvili, Simon Jenni, Paolo Favaro. Learning to Have an Ear for Face Super-Resolution. CVPR, 2020. [72] Shady Abu Hussein, Tom Tirer, Raja Giryes. Correction Filter for Single Image Super-Resolution: Robustifying Off-the-Shelf Deep Super-Resolvers. CVPR 2020.

Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network Abstract: Recently, several models based on deep neural networks have achieved great

success in terms of both reconstruction accuracy and computational performance for single image super-resolution.