Single Image Super Resolution Using Gaussian Process Regression

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Single Image Super Resolution Using

Introduction. Super-resolution is the process of creating high-resolution images from low-resolution images. This example considers single image super-resolution (SISR), where the goal is to recover one high-resolution image from one low-resolution image.

Single Image Super-Resolution Using Deep Learning - MATLAB ...

Super-resolution basically includes enhancing the low-resolution (LR) image to high-resolution(HR). It has been a topic of research and still an ongoing process in technology. There are many methods for achieving high-resolution enlargements for pixel- based images. Single Image Super Resolution is a method of deep learning.

Single Image Super Resolution Using a Generative ...

The adversarial loss pushes our solution to the natural image manifold using a discriminator network that is trained to differentiate between the super-resolved images and original photo-realistic images. In addition, we use a content loss motivated by perceptual similarity instead of similarity in pixel space.

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

Single Image Super Resolution involves increasing the size of a small image while keeping the attendant drop in quality to a minimum. The task has numerous applications, including in satellite and aerial imaging analysis, medical image processing, compressed image/video enhancement and many more.In this blog post we apply three deep learning models to this problem and discuss their limitations ...

Using deep learning for Single Image Super Resolution

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?

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

Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network Wenzhe Shi1, Jose Caballero1, Ferenc Huszar´ 1, Johannes Totz1, Andrew P. Aitken1, Rob Bishop1, Daniel Rueckert2, Zehan Wang1 1Magic Pony Technology 2Imperial College London 1{wenzhe,jose,ferenc,johannes,andy,rob,zehan}@magicpony.technology 2D.Rueckert@imperial.ac.uk

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

Single-Image-Super-Resolution. A list of resources for example-based single image super-resolution, inspired by Awesome-deep-vision and Awesome Computer Vision. By Yapeng Tian and Yunlun Zhang (if you have any suggestions, please contact us! Email: yapengtian@rochester.edu OR yulun100@gmail.com).

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

Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network ... single image super-resolution using faster and deeper con-volutional neural networks, one central problem remains ... 1.1.1 Image super-resolution Recent overview articles on image SR include Nasrollahi

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

We further show how this combined approach can be applied to obtain super resolution from as little as a single image (with no database or prior examples). Our approach is based on the observation that patches in a natural image tend to redundantly recur many times inside the image, both within the same scale, as well as across different scales.

Super-Resolution From a Single Image

Originally, super-resolution methods worked well only on grayscale images, but researchers have found methods to adapt them to color camera images. Recently, the use of super-resolution for 3D data has also been shown. Research. There is promising research on using deep convolutional networks to perform super-resolution.

Super-resolution imaging - Wikipedia
Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network. CVPR 2016 • Wenzhe Shi • Jose Caballero • Ferenc Huszár • Johannes Totz • Andrew P. Aitken ...

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