

Super Resolution Image Reconstruction

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Super Resolution Image Reconstruction

NTIRE 2018 challenge on image super-resolution. In order to gauge the current state-of-the-art in (example-based) single-image super-resolution under realistic conditions, to compare and to promote different solutions we are organizing an NTIRE challenge in conjunction with the CVPR 2018 conference.

NTIRE2018: New Trends in Image Restoration and Enhancement ...

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

Super-resolution imaging (SR) is a class of techniques that enhance the resolution of an imaging system. In some SR techniques—termed optical SR—the diffraction limit of systems is transcended, while in others—geometrical SR—the resolution of digital imaging sensors is enhanced.. In some radar and sonar imaging applications (e.g., magnetic resonance imaging (MRI), high-resolution ...

Super-resolution imaging - Wikipedia

Super-resolution (SR) technique reconstructs a higher-resolution image or sequence from the observed LR images. As SR has been developed for more than three decades, both multi-frame and single-frame SR have significant applications in our daily life.

Image super-resolution: The techniques, applications, and ...

Super-Resolution from Image Sequences - A Review Sean Borman, Robert L. Stevenson Department of Electrical Engineering University of Notre Dame Notre Dame, IN 46556, USA

Super-Resolution from Image Sequences - A Review

Accurate Image Super-Resolution Using Very Deep Convolutional Networks Jiwon Kim, Jung Kwon Lee and Kyoung Mu Lee Department of ECE, ASRI, Seoul National University, Korea

Accurate Image Super-Resolution Using Very Deep ...

NTIRE challenge on example-based single image super-resolution. In order to gauge the current state-of-the-art in example-based single-image super-resolution, to compare and to promote different solutions we are organizing an NTIRE challenge in conjunction with the CVPR 2017 conference.

NTIRE2017: New Trends in Image Restoration and Enhancement ...

Residual Dense Network for Image Super-Resolution Yulun Zhang 1, Yapeng Tian2, Yu Kong , Bineng Zhong 1, Yun Fu;3 1Department of Electrical and Computer Engineering, Northeastern University, Boston, USA 2Department of Computer Science, University of Rochester, Rochester, USA 3College of Computer and Information Science, Northeastern University, Boston, USA

Residual Dense Network for Image Super-Resolution

The diffraction limit, as formulated by Abbe, sets the attainable resolution in far-field optical microscopy to about half of the visible wavelength λ , hindering its applicability in life science ...

Super-resolution enhancement by quantum image scanning ...

Image resolution is the detail an image holds. The term applies to raster digital images, film images, and other types of images. Higher resolution means more image detail. Image resolution can be measured in various ways. Resolution quantifies how close lines can be to each other and still be visibly resolved. Resolution units can be tied to physical sizes (e.g. lines per mm, lines per inch ...

Image resolution - Wikipedia

Super-resolution microscopy (SRM) bypasses the diffraction limit, a physical barrier that restricts the optical resolution to roughly 250 nm and was previously thought to be impenetrable.

Super-resolution microscopy demystified | Nature Cell Biology

Our research activities are primarily focused on the signal processing and machine learning for high-resolution high-sensitivity image reconstruction from real world bio-medical imaging systems. Such problems pose interesting challenges that often lead to investigations of fundamental problems in various branches of physics, mathematics, signal processing, biology, and medicine.

BISPL - Bio Imaging, Signal Processing & Learning Lab ...

Our Research. The research goal of Computer Graphics Lab is to develop software and tools for various graphics applications. To achieve the goal, we are currently focusing on 3D reconstruction, face reconstruction, scene understanding, image registration, image enhancement, video processing and new media processing.

POSTECH Computer Graphics Laboratory - Homepage

2015 INTERNATIONAL IMAGE SENSOR WORKSHOP Monday, June 8 th 2015- AM. Introductory paper.: The State-of-the-Art of Mainstream CMOS Image Sensors Ray Fontaine Competitive Technical Intelligence Group, Chipworks, Inc., Canada

2015 Papers | International Image Sensor Society

I am currently a PhD student at the University of Nottingham in the Computer Vision Laboratory under the supervision of Dr. Georgios Tzimiropoulos. My current interests are in deep learning and key points localisation.

Index | Adrian Bulat

Our support for medical research ranges from healthcare and bioscience to regenerative medicine and innovative drug development. Nikon's equipment is used by researchers who study living iPS cells to find applications that will benefit society.

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Plugins - National Institutes of Health

Key words. light field, computational photography, image-based rendering, free-viewpoint image synthesis, 3-D/light-field display, depth estimation, 3-D reconstruction, multi-view imaging, active illumination, super-resolution reconstruction, image/video coding

Welcome to Keita Takahashi's Page @ Nagoya University

PVCAM 2.7.7 / RS Image 1.5.2: Mac OS-X Driver Support Moving forward, Teledyne Photometrics will focus driver development and support on the Windows platform only and have discontinued updates to PVCAM Drivers for Mac OSX.

Camera Software and Drivers - Photometrics

Digital twin technology can improve the construction process on most of the key stages. Learn what are digital twins, how they can help on each construction stage, and how to gather data for them to succeed. Read our comprehensive article now.

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