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# Access Free Image Super Resolution Survey

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Super resolution is a technique for constructing high quality images. The main idea behind this process is combining a set of low resolution images taken from the same image or scene. Nowadays Super resolution techniques used in many applications including medical imaging, Satellite imaging, digital imaging, Biometric representation etc.

### **Super-resolution: a comprehensive survey | SpringerLink**

Abstract: Single image super-resolution (SISR) is a notoriously challenging ill-posed problem that aims to obtain a high-resolution output from one of its low-resolution versions. Recently, powerful deep learning algorithms have been applied to SISR and have achieved state-of-the-art performance. In this survey, we review representative deep learning-based SISR methods and group them into two ...

**(PDF) Literature Review on Single Image Super Resolution**

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**super resolution** [\\_Zealoe-CSDN](#)

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7 1.2 Notations Before talking about SR techniques, we introduce the notations we use in this chapter. Upper case bold letters  $X$  and  $Y$  denote the vector form in lexico-graphical order for HR and LR images respectively.

In this survey, we aim to give a survey on recent advances of image super-resolution techniques using deep learning approaches in a systematic way. In general, we can roughly group the existing studies of SR techniques into three major categories: supervised SR, unsupervised SR, and domain-specific SR.

## **A New Method for Superresolution Image Reconstruction**

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Image processing sub branch that specifically deals with the improvement, of images and videos, resolution without compromising the detail and visual effect but rather enhances the two, is known as Super Resolution. Multiple (multiple input images and one output image) or single (one input and one output) low resolution images are converted to high resolution.

Super-resolution, the process of obtaining one or more high-resolution images from one or more low-resolution observations, has been a very attractive research topic over the last two decades.

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