



SURVEY ARTICLE

A Survey on Techniques and Challenges in Image Super Resolution Reconstruction

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Abstract— In this paper we study and represent various techniques of image super resolution (SR), it is also called as super resolution reconstruction. Super resolution reconstruction produces high resolution image from sequence of low resolution images. The main aim of super resolution is to improve visual quality of available low resolution image. Also existing Low Resolution (LR) imaging can be utilized with help of super resolution reconstruction. This paper focuses on reconstruction based and learning based super resolution methods. We have represented various existing super resolution techniques, advantages and disadvantages of those techniques, recent work and recent methods of super resolution reconstruction method. Finally we have presented challenge issues and future research directions for super resolution.

Key Terms: - Low Resolution; High Resolution; Super Resolution; Reconstruction based super resolution; learning based super resolution

Full Text: <http://www.ijcsmc.com/docs/papers/April2013/V2I4201375.pdf>