

Super Resolution methods to achieve high quality imaging

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ABSTRACT

Now a day the increase in the quality of images is becoming need of the multimedia applications. The quality of the image can be improved by increasing image captured by any present image acquisition device. The increase in the optical resolution is having problem of shot noise due to smaller size of the sensors. Super Resolution (SR) deals with combining low resolution images of same scene with additional information in each to get higher resolution image. Due to this, we need not have a high resolution device for acquisition of an image. We present an overview of existing SR methods and address the motion estimation and optical blur methods of super resolution to achieve high quality imaging with different optical zoom of low resolution camera. The quality of images is significantly improved and high resolution imaging is achieved. These techniques are highly computational; but provide very good visual quality of images.

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