Abstract

Super-resolution is the process of recovering a high-resolution image from multiple low-resolution images of the same scene. Also refers to techniques for overcoming the sampling limits and blurring effect of the digital image. This paper presents a spatiotemporal kernel regression technique for video super resolution, which is computationally efficient and simple in implementation. The objective of image restoration is to restore the visual information of a degraded image. It has wide applications in photographic deblurring, remote sensing, medical imaging, etc. Some web cam captures low resolution images due to low cost sensors or limitation of the hardware. So, the proposed resolution enhancement technique could be used as an inexpensive software alternative. The performance of the proposed algorithm is better when compared to other techniques.
A Novel Approach for Reconstructing Super Resolution Video from Low Resolution Video

References


Index Terms

Computer Science
Emerging Trends in Technology
**Keywords**
Kernel Regression  Gaussian Kernel  Epanichinkov Kernel  Enhancement