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Iterative-Interpolation Super-Resolution Image Reconstruction

By Vivek Bannore

Springer-Verlag GmbH Apr 2009, 2009. Buch. Condition: Neu. Neuware - To my wife, Mitu - Vivek Bannore Preface Preface In many imaging systems, under-sampling and aliasing occurs frequently leading to degradation of image quality. Due to the limited number of sensors available on the digital cameras, the quality of images captured is also limited. Factors such as optical or atmospheric blur and sensor noise can also contribute further to the degradation of image quality. Super-Resolution is an image reconstruction technique that enhances a sequence of low-resolution images or video frames by increasing the spatial resolution of the images. Each of these low-resolution images contain only incomplete scene information and are geometrically warped, aliased, and under-sampled. Super-resolution technique intelligently fuses the incomplete scene information from several consecutive low-resolution frames to reconstruct a high-resolution representation of the original scene. In the last decade, with the advent of new technologies in both civil and military domain, more computer vision applications are being developed with a demand for high-quality high-resolution images. In fact, the demand for high-resolution images is exponentially increasing and the camera manufacturing technology is unable to cope up due to cost efficiency and other practical...



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