Abstract

This work is introducing the new technique using the improved texture enhanced framework for image denoising. This technique is fast as compared to the higher order singular value decomposition (HOSVD) as we have in the previous work. The HOSVD technique simply compose in a cluster, alike Patches of noisy image in 3D heap, work out HOSVD factors of this heap, handles these factors by stiff thresholding, and turn upside down the HOSVD transmute to yield the final resultant image. Whereas improved texture enhanced image denoising have proven to be effective and robust in many image denoising tasks. It is experimentally demonstrating approximately 5 percent improved PSNR characteristics of ITEID technique on gray scale images. The ITEID process yields state-of-the-art outcomes on gray images, than HOSVD image data denoising process at moderately great noise stages.

References

- Buades, B. Coll, and J. -M. Morel, "A non-local algorithm for image
Improved Texture Enhanced Image Denoising

- Wangmeng Zuo, Lei Zhang, Chunwei Song, David Zhang and Huijun Gao
- Gradient Histogram Estimation and Preservation for Texture Enhanced Image Denoising

**Index Terms**

Computer Science

Image Processing
Keywords
Image data denoising  singular value decomposition (SVD)  HOSVD  patch Basis similarity
ITEID