Abstract

The evolution innermost the processing power of electronic devices direct the research of well-organized image denoising technique in the direction of the extra complex method which use the difficult transform functional test with statistics. Even supposing with the difficulty of the newly developed techniques, generally algorithm fails to whole adorable stage of performance. For the mainly part algorithms fail since the expedient model mismatch the algorithm presumption taken at the time of improvement. This paper presents a proficient approach intended for image denoising based on Shearlet transform and the Bayesian Network. The projected technique use the geometric dependencies in the shearlet domain in the direction of the Bayesian Network which is next used for predict the noise probability. The Shearlet transform provide improved approximation particularly in different scales, and directional discontinuities which make it preferable designed used within support of processing the pixel around the edge. The later result prove that the future technique better wavelet base method visually and mathematical in conditions of PSNR (peak signal -to -noise ratio).
References

4. Wubuli, Ayiguli, Zhen-Hong, Jia; Xi-Zhong, Qin; Jie, “Medical Image Enhancement Based on Shearlet Transform and Unsharp Masking”, Journal of Medical Imaging and Health Informatics, Volume 4, Number 5-2014.
10. Junliang Liu; Lin Lei; Shilin Zhou. “Nonsubsampled Shearlet-based image denoising using multiscale products”,
12. Ying Li, Rui-ming, Chen Shi Liang. “A New Image Denoising Method Based on Shearlet Shrinkage and Improved Total Variation”. Volume 7202 of the series Lecture Notes in Computer Science pp 382-388

Index Terms

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Keywords

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