

Comparison of Denoising Algorithms based on Coefficient of Variance

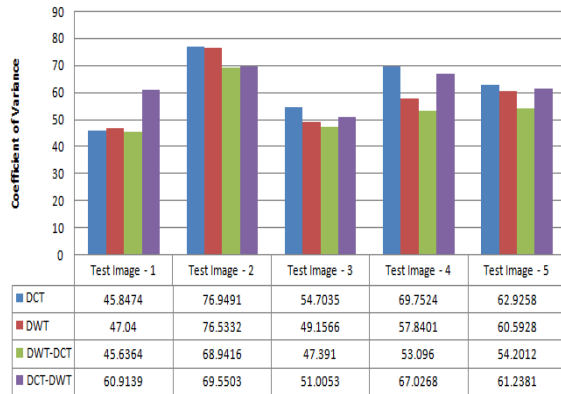


Figure 19. Comparison of Denoising Algorithm using variance coefficient

The maximum Structural Similarity Index of Hybrid Algorithm is given in Figure 20.

Comparison of Denoising Algorithms based on Structural Similarity Index

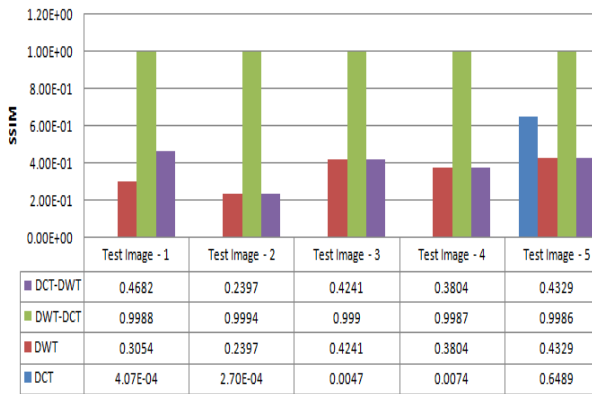


Figure 20. Comparison of Denoising Algorithms based on Structural Similarity Index

5. Conclusion

The hybrid algorithms based denoising technique is discussed in this paper. The proposed algorithms utilize the advantages of both DCT and DWT transformation effectively for denoising the images obtained from satellite. Thus, the algorithm minimizes the negative contour and blocks the artefacts efficiently. Among several denoising technique, the hybrid algorithm is a best option as its PSNR is increased by 15% with minimum MSE, Variance Coefficient, and SSI and MSSI are also

enhanced. Hence the denoised pictures prove to have low noises in the satellite image.

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