In this paper, an effective method for speckle reduction and image enhancement for SAR images is proposed. The novelty of the proposed method is the adaptive calculation of parameters with ease in adaptive sigmoid thresholding approach for removing the speckle noise from the SAR images followed by post-processing operation. The noise removal operation is carried out in wavelet domain using db4 wavelet. The experimental results show that the proposed method despeckles the given image efficiently. Filtering is done as post-processing operation. Comparative analysis of various filters has been carried out and the results prove that Gaussian filtering is more appropriate for enhancing the quality of despeckled SAR images.

References

- Fabrizio Argenti and Luciano Alparone, "Speckle Removal From SAR Images in

Index Terms

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Despeckling  Adaptive Sigmoid Thresholding  Sar Image Enhancement  Wavelet Decomposition  Gaussian Filter