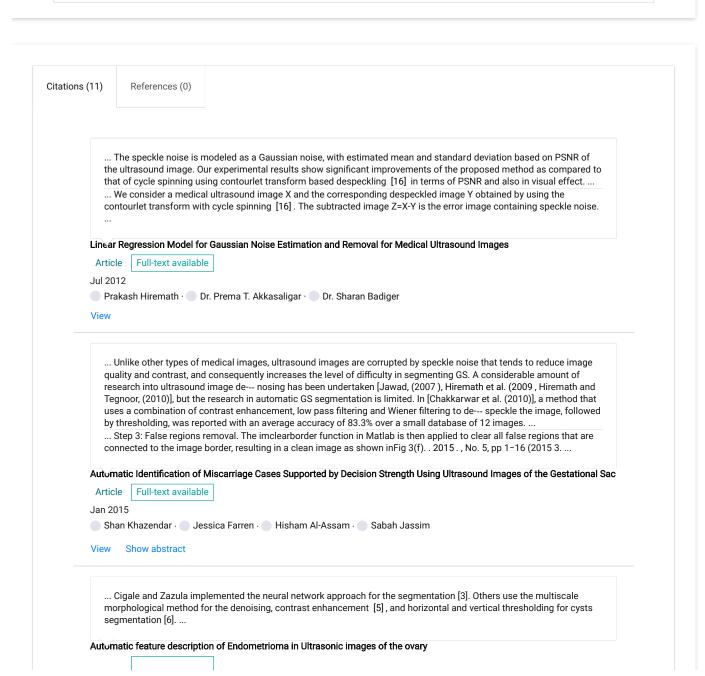
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of res	refore speckle noise reduction is an important requirement whenever ultrasound imaging is used. A large amount earch into ultrasound image de-nosing has been undertaken [7, 8, 9], but the research in the area of gestational sac entation and enhancement is very limited. In [10], Chakkarwar et al. presented an automatic method for GS entation using a database of 12 images with average accuracy of 83.3%
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A New Ultrasound Image Denoising Method Combining Nonsubsampled Contourlet Transform and Edge-Preser...

June 2014 · Advanced Materials Research

Xin Zheng Wang · Niongzhu Bu · Jing Yu

In order to suppressing the speckle noise in ultrasound image effectively, a new hybrid denoising method is proposed by combining the nonsubsampled contourlet transform (NSCT) with edge-preserving self-snake model (EPSSM). The method comprises of three key steps.

Firstly, the noise model is established for the sake of analyzing. Then the map estimation with bivariate shrinkage function which uses ... [Show full abstract]

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Despeckling of Ultrasound Images in Contourlet Domain

January 2013 · Advanced Materials Research

Yu Shu Liu · Ming Yan Jiang

Ultrasound images are the important foundation for disease diagnostics. Unfortunately, speckle noise is an inherent property of ultrasound images. So speckle reduction is an important pre-processing step in the ultrasound image feature extraction and analysis. This paper proposes a novel noise reduction algorithm for ultrasound images, which is based on edge detection of the images using the ... [Show full abstract]

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