Software to reduce speckle noise in medical imaging

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Technology description

Summary

Investigators at the University of Pittsburgh have developed a software which reduces speckle noice by modeling the signal shape without affecting the image quality of an optical coherence tomography scan.

Description

Speckle noise is the most common type of noise, which degrades image appearance as well as clinical interpretation accuracy/reliability, with various medical imaging modalities, including optical coherence tomography (OCT) and ultrasound. Although there have been many attempts to reduce speckle noise using various image processing techniques, their heavy computational load and/or image quality degradation (blurring effect) prevented them to be practical solutions. Investigators have developed a novel method overcoming these limitations. By modeling the meaningful signal shape, speckle noise can be selectively and intelligently suppressed. *Copyright*

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