

Accepted Manuscript

Original Article

An optimized non local means filter using automated clustering based preclassification through gap statistics for speckle reduction in breast ultrasound images

K.M. Prabusankarlal, R. Manavalan, R. Sivaranjani

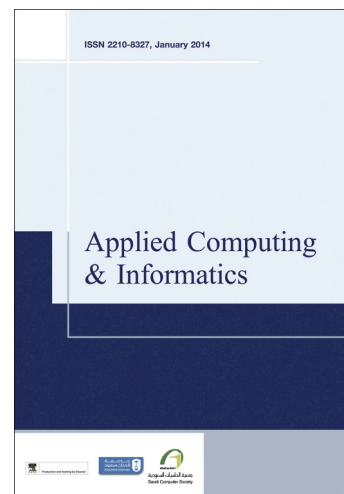
PII: S2210-8327(16)30080-1
DOI: <http://dx.doi.org/10.1016/j.aci.2017.01.002>
Reference: ACI 62

To appear in: *Applied Computing and Informatics*

Received Date: 6 November 2016
Revised Date: 23 December 2016
Accepted Date: 5 January 2017

Please cite this article as: Prabusankarlal, K.M., Manavalan, R., Sivaranjani, R., An optimized non local means filter using automated clustering based preclassification through gap statistics for speckle reduction in breast ultrasound images, *Applied Computing and Informatics* (2017), doi: <http://dx.doi.org/10.1016/j.aci.2017.01.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**AN OPTIMIZED NON LOCAL MEANS FILTER USING AUTOMATED
CLUSTERING BASED PRECLASSIFICATION THROUGH GAP STATISTICS FOR
SPECKLE REDUCTION IN BREAST ULTRASOUND IMAGES**

Prabusankarlal K.M^a, Manavalan R^b, Sivaranjani R^c

^a Department of Electronics & Communication, K.S.Rangasamy College of Arts & Science, Tiruchengode, India, 637215.

^b Department of Computer Science & Applications, Arignar Anna Government Arts College, Villupuram, India, 605602.

^c Department of Mathematics, K.S.R. College of Arts & Science for Women, Tiruchengode, India, 637215.

Address all correspondence to: K.M.Prabusankarlal, Associate Professor and Head, Department of Electronics & Communication, K.S.Rangasamy.College of Arts & Science, Tiruchengode, India, 637215, E-mail: kmsankar@gmail.com , Phone:+919842410124.

Financial Support:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Download English Version:

<https://daneshyari.com/en/article/6890270>

Download Persian Version:

<https://daneshyari.com/article/6890270>

[Daneshyari.com](https://daneshyari.com)