Accepted Manuscript

Ultrasound Image Segmentation Using A Novel Multi-Scale Gaussian Kernel Fuzzy Clustering and Multi-Scale Vector Field Convolution

Lipismita Panigrahi, Kesari Verma, Bikesh Kumar Singh

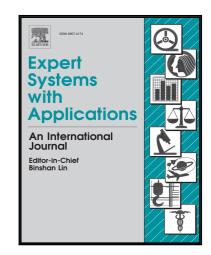
PII: \$0957-4174(18)30521-9

DOI: https://doi.org/10.1016/j.eswa.2018.08.013

Reference: ESWA 12143

To appear in: Expert Systems With Applications

Received date: 6 September 2017 Revised date: 4 August 2018 Accepted date: 10 August 2018



Please cite this article as: Lipismita Panigrahi, Kesari Verma, Bikesh Kumar Singh, Ultrasound Image Segmentation Using A Novel Multi-Scale Gaussian Kernel Fuzzy Clustering and Multi-Scale Vector Field Convolution, *Expert Systems With Applications* (2018), doi: https://doi.org/10.1016/j.eswa.2018.08.013

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.

ACCEPTED MANUSCRIPT

/ Expert Systems with Applications 00 (2018) 1-17

Highlights

- A novel MsGKFCM clustering technique is proposed.
- For boundary detection MsVFC technique is used.
- The methods are evaluated using JI, DS, HD, AD, Accuracy and F-measure.
- Performed one-way ANOVA test to statistically assess the superiority of the method.
- The Proposed method outperforms among state of art methods in breast US datasets.

1

Download English Version:

https://daneshyari.com/en/article/11002295

Download Persian Version:

https://daneshyari.com/article/11002295

<u>Daneshyari.com</u>