

Accepted Manuscript

An Iterative Possibilistic Knowledge Diffusion Approach for Blind Medical Image Segmentation

I. Khanfir Kallel , S. Almouahed , B. Solaiman , É. Bossé

PII: S0031-3203(18)30034-7
DOI: [10.1016/j.patcog.2018.01.024](https://doi.org/10.1016/j.patcog.2018.01.024)
Reference: PR 6433



To appear in: *Pattern Recognition*

Received date: 5 May 2017
Revised date: 8 January 2018
Accepted date: 24 January 2018

Please cite this article as: I. Khanfir Kallel , S. Almouahed , B. Solaiman , É. Bossé , An Iterative Possibilistic Knowledge Diffusion Approach for Blind Medical Image Segmentation, *Pattern Recognition* (2018), doi: [10.1016/j.patcog.2018.01.024](https://doi.org/10.1016/j.patcog.2018.01.024)

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.

Highlights

- A novel region-growing segmentation method based on possibilistic theory is proposed.
- Region-growing process is iteratively performed at the possibilistic knowledge representation level.
- Possibility theory allows adequate semantic knowledge modeling without huge constraints.
- Validation is done in the context of pixel classification using both real and synthetic data.
- Proposed approach shows remarkable stable behavior during quantitative assessment.

Download English Version:

<https://daneshyari.com/en/article/6939198>

Download Persian Version:

<https://daneshyari.com/article/6939198>

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