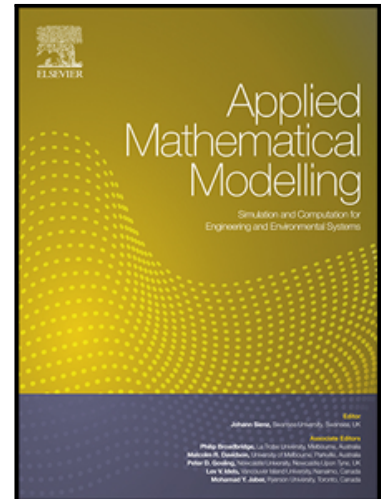


Accepted Manuscript

A fractional order derivative based active contour model for inhomogeneous image segmentation

Bo Chen , Shan Huang , Zhengrong Liang , Wensheng Chen , Binbin Pan

PII: S0307-904X(18)30398-6
DOI: <https://doi.org/10.1016/j.apm.2018.08.009>
Reference: APM 12423



To appear in: *Applied Mathematical Modelling*

Received date: 28 November 2017
Revised date: 9 August 2018
Accepted date: 14 August 2018

Please cite this article as: Bo Chen , Shan Huang , Zhengrong Liang , Wensheng Chen , Binbin Pan , A fractional order derivative based active contour model for inhomogeneous image segmentation, *Applied Mathematical Modelling* (2018), doi: <https://doi.org/10.1016/j.apm.2018.08.009>

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 new hybrid framework of adaptive-weighting active contour model is proposed.
- The global term enhances the image contrast and accelerates the convergence rate.
- The local term integrates fractional order differentiation and difference image information.
- An adaptive weighting strategy and a termination criterion are employed.
- Measures include the dice similarity coefficient and gray-levelled contrast.

Download English Version:

<https://daneshyari.com/en/article/10136097>

Download Persian Version:

<https://daneshyari.com/article/10136097>

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