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Weighted Variational Model for Selective Image Segmentation with Application to Medical Images

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PII: S0031-3203(17)30471-5
DOI: 10.1016/j.patcog.2017.11.019
Reference: PR 6372

To appear in: *Pattern Recognition*

Received date: 18 January 2017
Revised date: 1 November 2017
Accepted date: 16 November 2017

Please cite this article as: Chunxiao Liu, Michael Kwok-Po Ng, Tieyong Zeng, Weighted Variational Model for Selective Image Segmentation with Application to Medical Images, *Pattern Recognition* (2017), doi: 10.1016/j.patcog.2017.11.019

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Highlights

- A new variational selective segmentation model which contains both the edge information and the marker points is proposed.
- Existence and uniqueness of the minimizer can be guaranteed.
- Fast and efficient numerical algorithm can be developed and the linearly convergence can be proved under mild condition.
- Numerical experiments and comparisons for some challenging medical images demonstrate the usefulness of the proposed method

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