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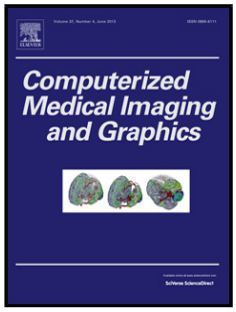

Title: A Level-set Approach to Joint Image Segmentation and Registration with Application to CT Lung Imaging

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Highlights

A simple novel joint image registration and segmentation method is presented.
The new algorithm is based on a level-set formulation, which merges a classic Chan-Vese segmentation with the active dense displacement field estimation.
Numerical implementation is evaluated on a publicly available lung CT data set.
Improvement of registration and segmentation properties compared with existing methods is shown.

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