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# Weld Radiographic Images Segmentation and Restoration Via Local Binary Fitting Energy and Binary Level Set

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**Abstract :** The present paper is devoted to discuss a region-based active contour model formulated via level set method. Region-based models have more advantages over edge based models, especially by introducing local statistical image intensities instead of the global statistical image intensities. This propriety makes those models well adapted to segment weld radiographic images in the aim to get image with less complexity and to extract weld defects in order to use them in NDT (Non Destructive Testing).

**Keywords :** segmentation, Restoration, weld radiographic images, region-based active contours, LBF model, Level set