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Extraction of weld defects dimension from radiographic images using the level set segmentation without re-initialization

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Abstract : Radiographic images segmentation is the major interest for the weld defect diagnosis and monitoring in the field of industry. In this work we present a method that takes ownership of local segmentation geodesic active contours. The goal of the method presented in this paper is to automate the process of extracting dimension characteristics from radiographic images using level set segmentation to provide information which is used in the area of nondestructive testing (NDT). This method is found to be effective and robust.

Keywords : Level set segmentation, Radiographic weld defect, weld defects Dimension, NDT