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

Mohammed Halimi, Naim Ramou

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 of weld defects from radiographic images using level set segmentation. The information would be used in the area of nondestructive testing (NDT). This method is found to be effective and robust.

Keywords : radiographic method, weld inspection, defect dimensions, Signal processing