

Parametric active contour for boundary estimation of weld defects in radiographic testing

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Abstract : In this paper we present a new approach to deal with the defects contours estimation problem in radiographic images using parametric active contours. In this approach we exploit the performance of the GVF as external force and enhance it by joining to it external adaptive pressure forces which bring speed to the snake evolution and less sensitivity to the snake initialization and provides capability of tracking the concavities.

Keywords : Active contour, GVF, Pression forces, radiographic images