

Edge detection in an infrared image in steeland metallurgical domain

K. Gherfi, M. Tria, H. Bendjama, R. Boulkroune, D. Idiou, L. Cherrad, T. Bensouci

Abstract : The iron and steel domain has a very important role in the industry. Indeed, much research has been fixed to the product quality, which is an essential factor in the production cycle. Among the most used techniques to today, to inspect the finished product, there is the infrared thermography. This latter allows for detecting defects in materials. Treatments of captured image using an infrared camera can detect the edge of these defects and hence locate them. In this work we try to apply mathematical methods to detect these edges.

Keywords : Infrared thermography, materials, Defects, edges