



Код: 10805

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Comparison of Radiographic Image Processing Algorithms

Дрезден, Германия, 2012 год

8 стр; формат: 23,5 x 16 см; библиографический список: 1 единица

Several different image processing methods are described and discussed. Their applicability to the processing of images from digital radiography equipment is compared. The overall conclusion is that advanced image enhancement methods are beneficial and can improve detectability of flaws in digital radiography images, but that these enhancement methods have to be used carefully, especially in cases when digital radiography is used under the restrictions of ASME code requirements. In these cases, the indications detected in the enhanced digital images have to be confirmed by simple intensity stretching, equivalent to changing the intensity of the radiographic film viewer, in order to avoid reporting artifacts which could be produced by the image processing procedure itself.

Доклад. 6-я Европейская конференция по мониторингу технического состояния сооружений, 2012. Редакция Кристиана Боллера.

Ключевые слова:

Содержание

Abstract

Introduction

Software options for radiography image processing

Requirements for image processing software

Comparing free image processing software

Commercial software for radiography image processing

AECL image processing software

Conclusions and discussion