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Abstract

Intelligente inspection of teel defects using image classification

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Abstract:

Steel surface inspection has seen a huge attention in relation with industrial quality of products. Steel defect inspection had been studied in different methods based on image classification in the most of time, but these can detect only such kind of defects in very limited conditions such as illumination, obvious contours, contrast and noise...etc. In this paper, we will discuss the automatic detection of steel surface defects using the convolutional neural network, which can classify the results in their specific classes. The steel we are going to use will be well-classified weather the conditions of imaging are not the same, and this is the advantage of CNN in our work. The accuracy and the robustness of the results are so satisfying.

Biography:

Kateb Yousra is a third year PhD student in automation and control in petrochemical industries she participated in the international conference of petrochemical advancement ICAEPI 2019. She is working on the artificial intelligence tasks and looking for a solution to defect detection using image classification based on convolutional neural network algorithm.

Publication of speakers:

1. Surveillance intelligente d'un système industriel par la classification d'images, Kateb Yousra

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