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PDF Improving  
Surface Defect  
Detection For  
Quality  
Assessment

# **Improving Surface Defect Detection For Quality Assessment**

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**Improving Surface**

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**Defect Detection For**

Corpus ID: 13381601.

Improving surface defect detection for quality assessment of car body panels. @inproceedings{Dring2004ImprovingSD, title={Improving surface defect detection for quality assessment of car body panels.}, author={Christian D{\o}ring and Andreas Eichhorn and Daniela Girimonte and

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Rudolf Kruse},  
year={2004}

**Improving surface  
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...

The approach  
presented in this paper  
is based on 3-D image  
processing. A major  
step towards  
automated quality  
control of produced  
panels is the  
classification of the  
different kinds of

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surface form deviations. In previous studies we compared the performance of different soft computing techniques for the detection of surface defect types.

### **CiteSeerX — Improving Surface Defect Detection for Quality ...**

In “Surface chemistry,” attempts to improve the properties of defects by alteration of

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the surface chemistry  
are discussed.

Reducing the size of  
diamond

Centrifugation, milling,  
oxidation, and  
electrophoresis have  
been investigated to  
reduce the size of  
nanodiamonds.

### **Improving surface and defect center chemistry of ...**

Improving Detection of  
Surface Imperfections  
with Green LED



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Surface Defect  
Lighting. Application:  
Enhance visibility of  
surface imperfections  
on manufacturing  
materials. Challenges:  
Ambient and white  
light provide  
insufficient contrast for  
defect detection.  
Solution: Green  
industrial LED task  
lighting.

### **Detection of Surface Imperfections with Green LED Lighting**

Determining the size

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and location of surface defects is crucial to evaluating the potential yield and value of hardwood logs. Recently a surface defect detection algorithm was developed using the Java language. This algorithm was developed around an earlier laser scanning system that had poor resolution along the

**Using parallel**

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## Surface Defect Detection For Quality Assessment

### **computing methods to improve log surface ...**

LPI is used to detect casting, forging, and welding surface defects such as hairline cracks, surface porosity, leaks in new products, and fatigue cracks on in-service components. DPI uses capillary action where a low-surface-tension fluid penetrates into clean and dry surface-breaking flaws.

Penetrant may be applied to the test component by dipping, spraying, or brushing.

#### **4 Methods of Detecting Surface Defects in Carbon Steel**

Recently a surface defect detection algorithm was developed using the Java language. This algorithm was developed around an earlier laser scanning

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system that had poor resolution along the length of the log (15 scan lines per foot).

### **Using parallel computing methods to improve log surface ...**

The film both serves to conformally decorate the MB defects to improve their detection, as well as curtail surface charging during e-beam inspection to prevent

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Surface Defect  
image degradation.

Figure 3a  
demonstrates the  
improved MB detection  
sensitivity for a dose-  
modulated wafer,  
where a greater than  
30 times increase in  
MB defect count is  
observed for the ...

## **Defect Detection Strategies and Process Partitioning for ...**

When inspecting for  
defects, pay close

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attention to welded joints, cuts, punctures and scoring. Run a gloved hand over the distressed areas looking for places where it catches to identify protrusions. Some protrusions, such as weld spatter, can be abrasive blasted. Others will require grinding.

### **Detecting & Identifying Defects in Steel During**

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At present, most of the detection objects are still plane-oriented. For example, Yi, et al. [17] proposed the detection of surface defects of end-to-end steel strips based on deep convolutional ...

### **(PDF) Periodic Surface Defect Detection in Steel Plates ...**

Surface Defect  
Classification in Real-



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### Surface Defect

Time Using

Convolutional Neural  
Networks. 04/07/2019

• by Selim Arikan, et  
al. • DFKI GmbH • 2 •

share . Surface  
inspection systems are  
an important  
application domain for  
computer vision, as  
they are used for  
defect detection and  
classification in the  
manufacturing  
industry.

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## **Classification in Real-Time Using For**

the surface and cost highly with complexity. A new efficient, adaptable and cheap detective method for surface defection on additive manufacturing is quite necessary. With the continuous progress of machine vision technology, machine vision is being paid attention widely as a new method for

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surface detection.

Detection For  
**An online surface  
defects detection  
system for AWAM  
based ...**

From heating and rolling, to drying and cutting, several machines touch flat steel by the time it's ready to ship. Today, Severstal uses images from high frequency cameras to power a defect detection algorithm. In this

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competition, you'll help engineers improve the algorithm by localizing and classifying surface defects on a steel sheet.

### **Severstal: Steel Defect Detection | Kaggle**

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For the latter, a defect detection strategy called wavelet transform multiscale filtering (WTMF) based on a wavelet transform and a multiscale filtering algorithm is proposed to reduce the influence of texture and to improve the robustness to

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localization error.

Detection For  
**A Surface Defect  
Detection  
Framework for Glass  
Bottle ...**

In this paper, a  
detection algorithm of  
surface defects on  
solar cells is proposed  
by fusing multi-channel  
convolution neural  
networks. The  
detection results from  
two different  
convolution neural  
networks, i.e., Faster R-

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CNN and R-FCN, are combined to improve detection precision and position accuracy.

### **Detection of surface defects on solar cells by fusing ...**

Focusing on the problem of surface defect detection, this paper proposes a weakly supervised learning method named Category-Aware object Detection network (CADN) to

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tackle the dilemma.

Decision For  
Quality  
Assessment  
CADN is trained with  
image tag annotations  
only and performs  
image classification  
and defect localization  
simultaneously.

### **CADN: A weakly supervised learning- based category- aware ...**

Inspection lights are a  
must for industries with  
surface paint finish  
defect detection to  
increase the visibility



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of defects such as dirt  
and paint runs.

Quality  
Assessment  
**Inspection Lighting  
for Paint/Surface  
Defect Detection ...**

Jian, J. Gao and Y. H.  
Ao, Automatic surface  
defect detection for  
mobile phone screen  
glass based on  
machine vision, Appl.  
Soft Comput. 52 (2017)  
348–358. Crossref , ISI  
, Google Scholar 15.

**A Contrast**

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**Enhancement**

**Method for**

**Improving Surface ...**

PGA-Net: Pyramid

Feature Fusion and

Global Context

Attention Network for

Automated Surface

Defect Detection

Abstract: Surface

defect detection is a

critical task in

industrial production

process. Nowadays,

there are lots of

detection methods

based on computer

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vision and have been  
successfully applied in  
industry, they also  
achieved good results.

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