Abstract

It presents an automatic defect identification system for detecting crack of titles from captured
digital images based on defect classification and segmentation. Image classification will be
used for automated visual inspection to classify defect and protects from quality one. It will be
performed through textures analysis and probabilistic neural network. The textures are
extracted using wavelet filters with cooccurrence features. The defect detection process
involves the preprocessing, segmentation and morphological filtering to make processing
system more flexible with accuracy.

References

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  Both for Flat and Textured Ceramic Tiles?, International Journal of Computer Applications (0975
An Automated Tiles Defect Detection


Index Terms

Computer Science

Image Processing

Keywords

Wavelet decomposition Cooccurrence features extraction PNN (Probabilistic Neural Network with Radial basis Function)
Segmentation and MATlab.