Abstract

It presents an automatic defect identification system for detecting crack of tiles 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.
Index Terms

Computer Science  Image Processing

Keywords

Wavelet decomposition  Cooccurrence features extraction  PNN(Probabilistic Neural Network with Radial basis Function)
An Automated Tiles Defect Detection

Segmentation and MATLAB.