



# Automated Flaw Diagnosis on Concrete Surface Images and Performance Evaluation

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**Abstract:** The Paper approaches the flaw detection on the concrete surface using edge detector and morphological operator. The concrete surface or road pavement image is for analysis the crack in the image. An existing system is using the wavelet transform to detect the crack from the image. However, Image segmentation is used for crack detection, but the minor cracks are difficult to detect. The proposed method using distributed canny edge detector and Morphological operator's dilation and closing operator separate the flaw. The algorithm needs less time to execute the operation. The execution time is comparison with median, wiener filtering.

**Keyword:** Crack, Dilation, Distributed canny edge detector, Closing.

