Crack Du Toan Bac Nam [BEST]

The present paper addresses the effects of repeated tensile cyclic loading on the cracking of glass-epoxy composite beam. The case of long-term loading with the cyclic loading is presented. The numbers of elastic-plastic cyclic loading were found to have little effect on the crack growth rate. In this work, the problem of high-resolution pavement crack detection using statistical learning techniques is investigated. The data set included 255 crack images of which the ground truth were obtained by visual inspection of multiple cracked patches. To better understand this methodology, it was applied to a high-resolution dataset (i.e., 1,400-pixel images) and a convolutional neural network (CNN) model was used to classify as cracks or not the pixelated crack images. The results show that the model achieved an accuracy of 93.75% by using only 40,000 samples of pixelated cracks. The analysis of multiple cracked images allows observing the different delamination stages and the different crack shapes, which help identifying the materials. The performances of the proposed crack detection model based on CNN were compared with the existing methods. The results prove that the CNN-based method obtains very high performance, showing the ability of CNN to build a crack detection system in an automatic way, predicting crack presence in the images in an efficient way, and detecting crack location and delamination degree efficiently. The study of crack detection in structural bearing models is performed to verify the ability of the proposed model to predict the stress levels on a cantilever beam. The results show that the stress levels can be estimated on a beam structure using the proposed model. The future works could provide a method to determine which data to choose among all the crack classes in a given input crack images.

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This study has been developed as a pioneering work in the context of crack detection in concrete structures. The proposed method has been designed to deal with different types of cracks including small, wide, and deep cracks. Compared with recent works using the same data, the proposed technique shows a higher accuracy in the crack detection process. Indeed, the method is efficient and completely automated to precisely detect cracks, even small ones, on the surfaces of concrete structures. The method can also be used to analyse the effect of cracks on the stability of concrete structures. Crack information can be estimated in the concrete surface, which leads to an excellent way for preparing the design of these structures. Because the cracks are specified in the 3D space, the direction and magnitude of stress on the concrete surface can be determined. The proposed method has an increasing prospect in the detection of cracks, making it able to be used in different concrete structures. This preliminary work has shown a high accuracy for the crack detection, especially for small cracks on concrete surfaces. The proposed model can provide guidelines for the amount of reinforcement in one concrete structural unit. Moreover, the proposed approach enables the prediction of the effects of crack on concrete structures by knowing its position and the delamination status. The proposed method is able to predict the distribution of the strain state along the crack on the structural surface. Since then, the government has carried out several more crackdowns on the media. The first was a decree that banned online, foreign, and international media from publishing information about the Phu Hai Incident. The second was the introduction in May of the “law on the dissemination of information,” which requires websites to store information about users on the server and to monitor the content they publish for possible copyright violations.
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