

Crossing Rod Breakage Detection Method Using Surveillance Camera Images

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For early and automatic detection of crossing rod breakage caused by vehicles forcibly entering in level crossing, we developed a method for detecting crossing rod breakage using surveillance camera images. The proposed method determines the presence or absence of stripes peculiar to level crossing by extracting the color components from images and identifying the spatial frequency of the waveforms converted from the extracted color components. This paper describes the details of the proposed method and the results of performance evaluation tests.