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System to Detect Theft Events using Raspberry PI

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Abstract: Image classification is the process of identifying and deciding what the image is by analysing the numerical properties of the different features of an image and then organising these data into categories. Image classification consists of training and intelligence. The various steps related to this are pre-processing of image, detecting ROI, extraction of features, neural network etc. Image classification is core for computer vision and has numerous practical applications. Some are for scanning of baggage and recognition of palm vein. The method of image processing and artificial intelligence can be used to experiment with the gadgets in a luggage and to suggest whether the item is risky or not. Thus the results from our experiment can be used for a wide variety of applications.

Keywords: Anti theft device, Raspberry Pi, Convolutional Neural Network (CNN), Machine Learning

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