

ABSTRACT

Data collection of students or employees who attend is called attendance. There are many ways of attendance that are applied in each institution. One of them is with AIDC (Automatic Identification Data Capture). An example of an AIDC system is by scanning a barcode. However, this method of scanning barcodes can lead to fraud when making attendance. students can easily entrust their attendance status by taking a picture of the barcode that is spread via group/private messages. Therefore, presence by utilizing artificial intelligence with the YOLO algorithm architecture can be used as another alternative in the presence system. Then, the algorithm is combined with displaying the coordinates of the location using GPS. The results of designing the presence method system, apart from needing to scan the face first, students also need to activate GPS so that the location of the device can be known. The results obtained from the YOLO algorithm have a pretty good value. Using test data that is similar to the dataset, you get an average value of 100% accuracy, if you use test data that is different from the dataset, you get an average value of 91% accuracy.

Keyword: *aidc, yolo, attendance, gps, ai.*