

Peer Review

Review of: "Fall Detection in Passenger Elevators using Intelligent Surveillance Camera Systems: An Application with YoloV8 Nano Model"

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In this study titled "Fall Detection in Passenger Elevators using Intelligent Surveillance Camera Systems: An Application with YoloV8 Nano Model".

1. Looking at the overall publication, a study was conducted on the detection of human falls in elevators using the YOLOv8 Nano model. It has not been evaluated whether the YOLOv8 Nano model is preferred for its speed performance feature for real-time applications and how much faster it works compared to other methods mentioned in the references.

2. In the Dataset section, it is stated that satisfactory results could not be obtained with approximately 1000 images and therefore a dataset consisting of 10000 images was prepared. It is not stated from which sources the 10000 images were collected. In addition, more detailed information should be given about the images here, such as image dimensions, frame sizes in them, whether there are one or more people, etc.

3. It is also stated, "The dataset was thoroughly examined in this study to ensure adherence to ethical guidelines." What are the ethical rules provided here? If the dataset is taken from different sources, permission information for the sources can be given.

4. Under the YOLOv8 Nano heading, it is stated, "In the second training iteration, only the dataset containing fall scenarios was employed. The following parameters were utilized during training: Epochs: 100, Image Size (imgsz): 640, Confidence Threshold: 0.5. Fall detection steps are shown in Fig 3." Will using only fall scenarios cause the TN rate to be mismeasured? Were TN rates not taken into account at all in this study? The image size is given as 640; is it taken as a vector?

Attachments: available at <https://doi.org/10.32388/P7JNBF>

Declarations

Potential competing interests: No potential competing interests to declare.