

Peer Review

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

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The contribution of this work is very good. The title has been formulated unambiguously, conveying the focus of the study. The accurate interpretation of outcomes, well substantiated by the results of the analysis, has been achieved by them. The presentation of the results in terms of the research objectives has been successfully made. The authors have been able to draw logical conclusions from the results. The simulation results and their respective discussion points prove the efficacy of the proposed method. Conclusions are accurate and clearly based on outcomes. Appropriate research goals are chosen in this contribution, which shows that the authors have a high level of understanding of current research within the field of their research. The authors successfully used the appropriate techniques for the analysis of the research objects.

In Figure 3, a flowchart of fall detection is shown; please discuss the “stability of the proposed method.” The stability should be intended in the sense of algorithm stability. Try, in this sense, to analyze the

existence of some singular cases in which the output of the algorithm is not guaranteed.

Try to analyze the calculation load of the proposed algorithm.

Try to address the case in which noise is present in the data, also with the help of the literature. In fact, in the presence of noise, the algorithm can generate some mistakes.

The following papers also consider applications using noise and fault detection approaches and can help readers to have a wide idea of where this methodology can be applied. Moreover, this literature can help to address the problem of the discussion of the presence of noise.

Mercorelli, Paolo „A Fault Detection and Data Reconciliation Algorithm in Technical Processes with the Help of Haar Wavelets Packets†, Algorithms; Basel Bd. 10, Ausg. 1,. (2017): 13. DOI:10.3390/a10010013

Mercorelli, P. (2024). Recent advances in intelligent algorithms for fault detection and diagnosis. *Sensors (Basel, Switzerland)*, 24(8). doi:10.3390/s24082656

Mercorelli, P. (2013). A denoising procedure using wavelet packets for instantaneous detection of pantograph oscillations. *Mechanical Systems and Signal Processing*, 35(1–2), 137–149. doi:10.1016/j.ymssp.2012.09.001

Declarations

Potential competing interests: No potential competing interests to declare.