Qeios

Peer Review

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

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Overall –

The study is well-structured but could be more concise and avoid redundancy. Technical details should directly connect to the study's objectives, and the limitations/future directions should be expanded.

For more clarity, below is section-wise feedback to improve the paper.

In the Introduction: Avoid repetition and make the problem statement more concise. Clearly distinguish research gaps from the study's contributions.

Literature Review: Improve transitions between studies and focus more on their relevance to the current work.

Methodology: Provide more details on data augmentation and clarify dataset biases. The discussion on training iterations should be more structured.

YOLOv8 Nano: Focus on how YOLOv8 specifically improves fall detection in elevators rather than general features. Explain the issues with pre-trained COCO weights more clearly.

Performance Evaluation: Expand metric explanations with real-case interpretations. Compare results with existing works in more detail.

Results & Conclusion: Contextualize results with practical implications. The limitations section needs more depth, and future work should include specific plans for dataset expansion.

Declarations

Potential competing interests: No potential competing interests to declare.