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ABSTRACT

This paper discusses a smart security camera system that automatically detects objects in real-time. It uses a powerful algorithm called YOLO (You Only Look Once) to quickly spot and identify items like people and cars in live video feeds. Instead of needing a person to watch a screen all the time, our system operates on its own. It is designed to be very fast and accurate, ensuring it can follow live events without delay. This is crucial for effective security and monitoring.

The main benefit of this system is that it makes surveillance much more efficient and reliable. It reduces the need for human oversight and can be set up to trigger alerts for specific activities, such as detecting an intruder or counting vehicles. This technology is highly adaptable and can be used to improve safety in various areas, including managing public spaces, monitoring traffic, and securing private properties. Overall, it provides a modern, automated solution for smarter and more effective surveillance.