

Application of deep learning technology to automatically detect smoking behavior in public places.

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Abstract: In the context of increasing public health concerns due to the harmful effects of cigarette smoke, this study focuses on using deep learning technology to develop an automatic system for detecting smoking behavior in public places. The goal is to build an effective and practical technical solution to enhance smoke-free environment management at public locations. The research methodology includes collecting video data, applying deep learning models to analyze and detect smoking behavior, and testing the system under real-world conditions. The expected outcome is an application solution that can be widely deployed to promote public health and ensure compliance with state regulations.

Keywords: Deep learning technology, video analysis, smoke-free environment management, smoking, public places