

Building a fire and smoke detection system from cameras using Deep Learning and real-time monitoring.

Nguyen Duc Hiep

Abstract: In the context of the increasing number of fires causing severe damage, this topic focuses on building an effective fire and smoke detection system from cameras. By combining Deep Learning techniques with real-time monitoring, the goal is to create an automatic and accurate solution for early detection of smoke and flames. The research method involves training a deep neural network model on video data from security cameras and evaluating performance through real-world testing. The expected results will contribute to improving infrastructure safety and minimizing fire damage.

Keywords: Deep Learning, Smoke Fire Detection, Security Camera, Real-time Monitoring, Applied Research