A Deep Learning-Based Real-Time Video Object Contextualizing and Archiving System

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Abstract— **In recent years, we can see the presence of CCTV cameras everywhere in developed cities and urban areas. CCTV cameras are widely equipped in public places, buildings, and entertainment areas. Along with that popularity is the issue of effective management and exploration of CCTV cameras to ensure security and safety for people. With a huge data recorded from cameras, we need systems that support monitoring and analysis of camera data as well as instant video data retrieval. In this paper, we introduce a system to contextualize the video content recorded from CCTV cameras in real-time and store data efficiently. The big data generated from the system will make it easier to monitor and operate the camera system to access and search for objects and content in the surveillance cameras.**

Keywords— **Video object contextualizing, CCTV Cameras, Deep learning-based systems, Video archiving systems**
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