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Retrieving Visual Data from Cameras Connected to the Internet

This software simplifies the retrieval of publicly available visual data by addressing compatibility issues across various network cameras and streaming formats.

Thousands of network cameras are connected to the internet and provide real-time visual data, image or video. Many of the network cameras do not require a password, making their visual data publically available. Networks consist of many camera brands, with each brand using a heterogeneous interface to retrieve the visual data. These unique interfaces make it difficult to retrieve visual data. In addition, websites that stream live video use different formats and styles; URLs frequently change. Compiling visual data to form a cohesive piece of footage is difficult because of the many interfaces and formats used.

Researchers from Purdue University have developed software that can retrieve visual data from heterogeneous sources, i.e., multiple camera models, websites, formats and styles. This software allows the user to retrieve visual data from the many network cameras that are publically available, making the task of retrieving visual data easier to perform.

Advantages:

-Works on multiple brands of cameras and their unique interfaces

-Requires less time

-Easier to perform

Potential Applications:

-Surveillance

-Police departments

-Departments of Transportation

-Film editing

Technology ID

2016-LU-67571

Category

Aerospace & Defense/Defense Electronics & Surveillance Technologies

Robotics & Automation/Perception & Sensing

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View online

TRL: 5

Intellectual Property:

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Keywords: visual data retrieval, heterogeneous camera networks, network cameras, public visual data, multi-camera models, surveillance software, police technology, departments of transportation technology, film editing tools, visual data compilation, Cameras, Computer Technology, Digital Storage