Post Incident Analysis Framework for Automated Video Forensic Investigation

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Abstract

The need for proper and acceptable forensic process is necessary due to the proliferation and advancement of high digital technology in all aspect of our life. Also the desire and needs for optimizing time and cost of doing things push humans to deeply depend on digital data for decision making. The legal system has also been investing heavily on this area to develop a framework and technology improvement. Therefore there is a need for an automated video forensic investigation tool and a proper development of a framework that can address the sensitive issues associated with this application. A crime culprit may walk scot-free or an innocent suspect may suffer negative consequences, both monetary and otherwise, simply on account of a forensics process or investigation that was inadequate or improperly conducted. Computer related crime are on the rise and skipping one aspect of forensic process or step may result into incomplete or inconclusive result of investigation that may affect interpretation and conclusions in a court of law. In this paper, we propose a novel automated post incident analysis framework which is able to tackle the challenges of video, realistic and practical outdoor surveillance scenarios.
References


Index Terms

Computer Science  Security

Keywords

Video Forensic Investigation, Post Incident Analysis, Evidence Collection, Automated Video Analysis.