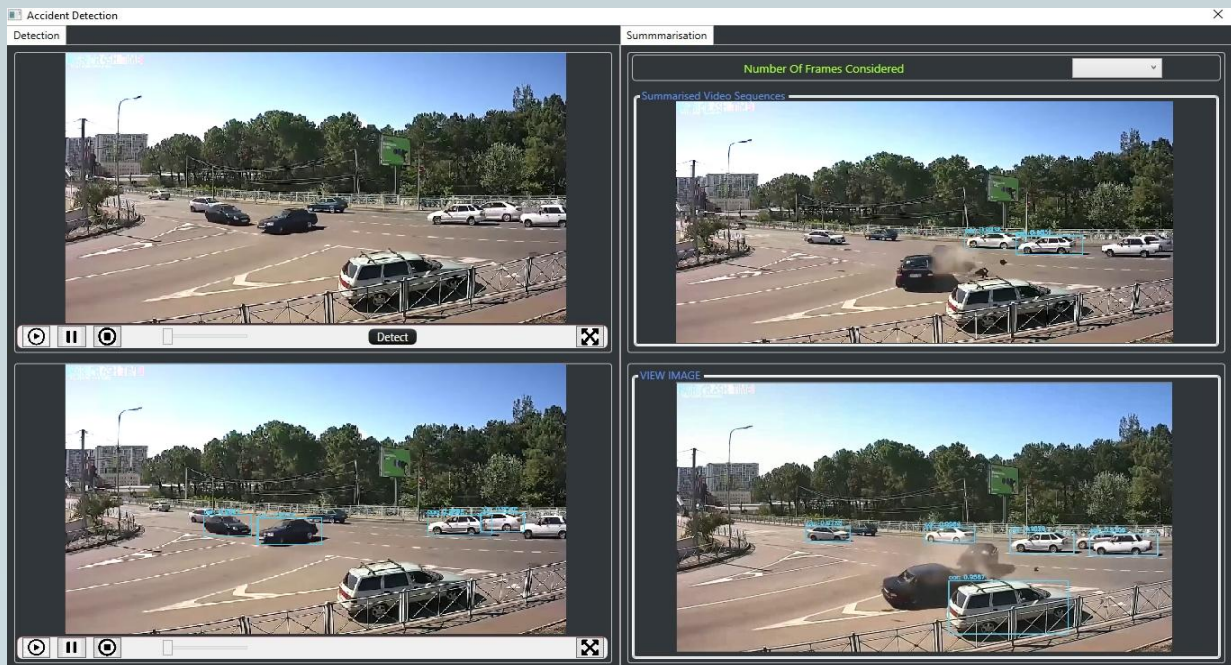


VIDEO SUMMARIZATION

Sub-Module: Vehicle Accident Detection and Summarization

Due to the ever increasing number of vehicles, a significant rise in the number of road accidents has been observed. The video footages so captured are analyzed manually, after the occurrence of an event to get some clues for a case being analyzed. This inhuman effort reduces substantially with real time video summarization, where the supporting thumbnail of the original video replaces the raw data. The resultant video will be short and will contain only those salient frames in which an occurrence of a vehicle accident exists. This summarized short videos will be centrally saved with reduced sizes and can be retrieved in offline mode.



Features:

- ❖ Vehicle Detection from road surveillance videos
- ❖ Accident Detection of vehicles
- ❖ Key frames generation for an accident event for displaying as multi-frame summary
- ❖ Contextual optimization framework for summarization model
- ❖ A cost function based video summarization of vehicle accidents on roads

Application Areas:

- Road Surveillance to detect vehicle accidents and summarization
- Traffic management and analytics

System Requirements:

- ☐ RAM: Min. requirement is 8GB
- ☐ Min. requirement is 20 GB HDD
- ☐ Intel Core i5, 8th Generation equivalent or higher
- ☐ DVD ROM (Installation only).
- ☐ Aspect Ratio of Monitor - 16:9
- ☐ OS: Microsoft Windows 10

End Users: (a) Law Enforcement Agencies
(b) Traffic Police