

Video Analytics from Homeland Protection to Theft Prevention and Crowd Analysis

This talk will start with a discussion of GE's participation in the 2008 DHS STIDP trials, which was focused on the prevention of suicide bomber attacks on large public events. A presentation of results based on a multi-camera tracking system will be given. From a retail theft prevention perspective we will focus on deployed beta sites, where suspicious behaviors as identified by experienced security guards have been used to raise real time alerts. The retail environment also offers the opportunity for auxiliary use cases, which include customer product interaction analysis. Topics such as gaze analysis and facial expression analysis will be discussed in this context. The talk will conclude a discussion of analytics associated with crowded sites. Topics will include crowd segmentation at mass transit locations and the identification of social networks.