

Detecting, Recognizing and Understanding Video Events in Surveillance Video

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Abstract

The Advanced Research and Development Activity (ARDA) is currently sponsoring an advanced research program called VACE or Video Analysis and Content Extraction. Starting this Fall, the VACE Program will embark on a second two-year R&D Phase. The focus of this phase of VACE is on moving beyond the detection, recognition and tracking of objects in video streams to the detection, recognition and understanding of the activities that the objects are engaged in. The VACE Program is interested in video events in all types of video: these types include: News Broadcast video, Meeting/Conference Video, UAV Motion Imagery and Ground Reconnaissance Video as well as Surveillance Video. This brief overview, however, will concentrate on VACE's interests in and ARDA's goals/objectives for detecting, recognizing and understanding video events in surveillance video. If time permits, other research opportunities at ARDA will be summarized.