

Video Surveillance and Human Activity Recognition for Anti-Terrorism and Force Protection

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Abstract

Current ONR and joint ONR / DARPA programs in video surveillance technology will be presented. These include: omni-directional video in a panoramic periscope for submarine situation awareness and mast-mounted omni-cameras for force protection of surface combatants in harbors and for shoreline protection. Ongoing research projects on automated detection and tracking of humans and small craft for AT/FP will be discussed in relation to emerging requirements. Research progress, challenges and opportunities in video-based human activity recognition will be explored. New DARPA initiatives in facial expression analysis and deception detection for checkpoint screening will be presented.