SEI BULLETIN - August 9, 2017

Real-Time Extraction of Biometric Data from Video

The Department of Defense is increasingly relying on biometric data, such as iris scans, gait recognition, and heart-rate monitoring, to protect against both cyber and physical attacks. "Military planners, like their civilian infrastructure and homeland security counterparts, use video-linked 'behavioral recognition analytics,' leveraging base protection and counter-IED operations," according to an article in Defense Systems. Current state-of-the-art approaches do not make it possible to gather biometric data in real-world settings, such as border and airport security checkpoints, where people are in motion. In this SEI Blog post, Satya Venneti presents the results of exploratory research conducted by the SEI's Emerging Technology Center to design algorithms that extract heart rate from video of non-stationary subjects in real time.

Read the post.

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