



Visual Object Tracking

Accelerator type: Accelerator Building Block

A key task in image analytics is tracking the position of an object as it moves throughout a video sequence. In a video analytics solution, the tracker is initialized with the location of the object of interest. The tracker builds a robust model of the object appearance and maintains the object's location across subsequent frames. The tracker is resilient to object occlusion and will automatically reinitialize the position of the object once it comes back into the field of view.

Accelerator detail: This accelerator solution provides real-time object tracking capabilities. Once an object has been detected in a video sequence, its position is tracked across subsequent frames. This accelerator would typically be integrated into an object detection and classification system, and is delivered as a hardware library and software API.

Competitive advantage

The Visual Object Tracking accelerator is capable of tracking an object in HD imagery (1920x1080) at 30 frames/second. This solution leverages hardware acceleration to employ sophisticated feature detection and classification algorithms to overcome precision and robustness challenges that hinder the tracking performance of software-exclusive tracking solutions.



For more information, contact

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