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היחידה להנדסת אלקטרואופטיקה

סמינר מחלקתי

Evaluation of performance tool for moving objects detector in a long distance imaging through turbulent medium

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Performance of optical systems is degraded by atmospheric turbulence medium caused by changes in refractive index of a medium along a line of sight.

This atmospheric path effect induces turbulence that causes movements in the scene and blur in the video sequence. Such degraded videos may increase the miss detection (false negative) and false detection (false positive) rates of moving objects such as people and vehicles.

There are numerous methods for detecting and tracking moving objects in such a conditions, therefore there is a need to evaluate these methods in terms of their detecting performance and to provide scores according to their success of detection.

In this seminar, I am presenting an evaluation tool that evaluates such a detector by comparing its output bounding boxes to a known ground truth reference bounding boxes, and providing scores.

Furthermore, this work intends to provide a challenging classified videos database with their ground truth reference and an evaluation tool for any method of detecting and tracking moving objects.

סמינר יתקיים ביום ג' 23/05/17 בשעה 12:00 בניין 51 אולם 715 הסמינר