

عنوان مقاله:

High Accuracy Position Estimation in Infra-Red Images

محل انتشار:

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خلاصه مقاله:

This paper presents different high accuracy position estimation of dim moving target from a forward looking infrared (FLIR) imaging sensor. The target image from the FLIR sensor is modeled as a bivariate Gaussian function, whose center position should be estimated. Based on this modeling for the radiation intensity pattern on the IR focal plane array, four different position estimation algorithms are proposed which are based on the centroid measurement, up sampling, linear and nonlinear least squares curve fitting. The simulation results show the validity of the performance predictions of the proposed algorithms.

کلمات کلیدی:

Infra-red Focal Plane Array (IR FPA); centroid; least Squares fitting; up sampling; FLIR

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