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Imaging system performance analysis and optimization using objective image quality criteria (Proceedings Paper)

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Paper Abstract

The paper presents an approach for performance evaluation and parametric optimization for IR imagin system design. This approach is based on calculations and minimization of image distortion. It applies the criterion like minimization of normalized least-square image error. The proposed mathematical apparatus makes possible evaluation of the performance and calculation of optimal parameters that reduces image distortion caused by spatial filtering and noise. The paper illustrates the application of the posed techniques for scanning system performance analysis and design.

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