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(Proceedings Paper)**Author(s): **Vladimir N. Borovitsky**; [Valery V. Fesenko](#); **Anatoly V. Molodyk**Date: **14 June 2000** **PDF**Member: **\$18.00** | Non-member: **\$18.00** **Hard Copy**Member: **\$24.00** | Non-member: **\$24.00**

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[Proceedings Vol. 4148](#)Optoelectronic and Hybrid Optical/Digital Systems for Image and Signal Processing, [Simon B. Gurevich](#); Zinovii T. Nazarchuk; [Leonid I. Muravsky](#), Editors, pp.269-272Date: **14 June 2000****Paper Abstract**

The paper presents an approach for performance evaluation and parametric optimization of imaging system design. This approach is based on calculation and minimization of image distortion. It applies the criterion based on 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 proposed technique for performance analysis of a scanning system.

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