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(Proceedings Paper)**Author(s): [Volodymyr N. Borovtsky](#); [Valery V. Fesenko](#)Date: **12 June 2001** **PDF**Member: **\$18.00** | Non-member: **\$18.00** **Hard Copy**Member: **\$24.00** | Non-member: **\$24.00**

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[Proceedings Vol. 4425](#)Selected Papers from the International Conference on Optoelectronic Information Technologies, Sergey V. Svechnikov; Volodymyr P. Kojemiako; [Sergey A. Kostyukevych](#), Editors, pp.1-8Date: **12 June 2001****Paper Abstract**

The paper discusses several techniques for performance evaluation of passive digital imaging systems. The principal approach of these techniques is a comparison of the output signals from a real imaging system and from the idealized one. The first technique applies the normalized least-square error called fidelity as an absolute measure of the output signal difference. The second technique uses the correlation coefficient that reflects the difference between linear combinations of the output signals as an estimation of performance. The third technique is based on evaluation of the information rate of the output signals.

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