A method for improving the error diffusion algorithms

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ABSTRACT.

In this paper, a method for compensating the softening effect of the error diffusion algorithms, and a new dithering technique that emphasizes the details of images and is based entirely on the wavelet transform, are presented

REFERENCES

- [1] Cosma, O., Wavelet transform application in image compression, Bul. Ştiinţ. Univ. Baia Mare Ser. B, Vol. XVI (2000), No. 2, pp. 283-296
- [2] Daubechies, I., Ten lectures on Wavelets, SIAM Publ., Philadelphia, pp. 195-202,(1992)
- [3] Floyd, R. and Steinberg, L., An adaptive algorithm for spatial Grey-Scale, Proc. of the SID, Vol. 17, No. 2, pp. 75-77, (1976)
- [4] Reissell, L. M., Multiresolution and Wavelets, SIGGRAPH'95 Course Notes, pp. 37-69 (1995)
- [5] Veryovka, O. and Buchanan, J. W., Texture-Based Dither Matrices, Computer Graphics Forum 19:1, pp. 51-64 (2000)
- [6] Signal and Image Processing Group, University of Bath, The Bath Wavelet Warehouse, http://www.bath.ac.uk/elec-eng/research/sipg/resource/warehouse.htm
- [7] A Bank of Wavelet Filters, http://www.isye.gatech.edu/~brani/.public_html/Wiley/filters.html
- [8] USC SIPI Image Database http://sipi.usc.edu/database/database.cgi?volume=misc&image=11#top

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