

Erratum

The PLSI Method of Stabilizing Two-Dimensional Nonsymmetric Half-Plane Recursive Digital Filters

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The authors would like to bring to the kind attention of the readers the following corrections to the paper [1].

Equation (23) in page number 917 is as follows:

$$f = b'_{00}. \quad (1)$$

It should be noted that in (23) and all equations in the rest of the paper that contain the term b'_{00} , this term is the constant term of the polynomial $B'(z_1, z_2)$, which is the stable version of the 2D PLSI polynomial $B(z_1, z_2)$. Since we have assumed that b_{ij} 's are the coefficients of the 2D PLSI polynomial, the coefficients of the polynomial $B'(z_1, z_2)$ are b'_{ij} 's.

Equation (46) in page number 920 is as follows:

$$\begin{aligned} A(z_1, z_2) = & 0.6 + 0.9z_2 + 0.3z_2^2 + 0.9z_1 + 1.5z_1z_2 + 0.9z_1z_2^2 \\ & + 0.3z_1^2 + 0.9z_1^2z_2 + 0.6z_1^2z_2^2 + 0.6z_1^2z_2^{-1} + 0.5z_1z_2^{-1} \\ & + 0.8z_1^2z_2^{-1} + 0.7z_1z_2^{-2} + z_1^2z_2^{-2}. \end{aligned} \quad (2)$$

This equation may be corrected as follows:

$$\begin{aligned} A(z_1, z_2) = & 0.6 + 0.9z_2 + 0.3z_2^2 + 0.9z_1 + 1.5z_1z_2 \\ & + 0.9z_1z_2^2 + 0.3z_1^2 + 0.9z_1^2z_2 + 0.6z_1^2z_2^2 \\ & + 0.5z_1z_2^{-1} + 0.8z_1^2z_2^{-1} + 0.7z_1z_2^{-2} + z_1^2z_2^{-2}. \end{aligned} \quad (3)$$

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REFERENCES

- [1] N. Gangatharan and P. S. Reddy, "The PLSI method of stabilizing two-dimensional nonsymmetric half-plane recursive digital filters," *EURASIP Journal on Applied Signal Processing*, vol. 2003, no. 9, pp. 914–921, 2003.