Erratum

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

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Received 5 October 2007; Accepted 4 November 2007

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:

$$f = b'_{00}. \tag{1}$$

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:

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

This equation may be corrected as follows:

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

ACKNOWLEDGMENTS

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.