

Errata Scheet

for Publications of H. W. Löllmann

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Erratum for Journal and Conference Papers

- [LV05] • "... since the term to the *left* of the curly brace..." → *right*
- [LV06] • replace $-j \frac{2\pi}{M} n i$ in Eq.(1) by $j \frac{2\pi}{M} (n + 1) i$
• replace $1 - \alpha^D$ in Eq.(39) by $1 - \alpha^{2D}$
- [LV07a] • replace $63 \cdot \Omega$ in Fig.3 by $N_p \cdot \Omega$
- [LV07b] • Appendix A: replace
"This does not hold for a complex allpass transformation since Eq.(A.4) does not apply for all a being complex."
by
"This also holds for an allpass transformation with complex pole a ."
• replace 2π in Eq.(21) by π
- [LV08] • replace in Fig.2.15-b
- $$\begin{aligned} H_0^{(M)}(z^M) &\rightarrow H_{M-1}^{(M)}(z^M) \\ w_0(n') &\rightarrow w_{M-1}(n') \\ H_1^{(M)}(z^M) &\rightarrow H_{M-2}^{(M)}(z^M) \\ w_1(n') &\rightarrow w_{M-2}(n') \\ H_{M-1}^{(M)}(z^M) &\rightarrow H_0^{(M)}(z^M) \\ w_{M-1}(n') &\rightarrow w_0(n') \end{aligned}$$
- replace 2π in Eq.(2.43) by π
• replace on page 49

”It can be proven that the minimum-phase property of the AR filter is always maintained for a real allpass transformation but not for a complex allpass transformation in general.”

by

”It can be proven that the minimum-phase property of the AR filter is maintained for a complex allpass transformation.”

- [LV09] • replace reference [9] in paper by [GK01] of the reference list below
- [LYJV10] • TABLE I: the correct values are $K_s = 20$ and $K_f = 400$ (instead of $K_s = 400$ and $K_f = 20$)
- [LV11] • Eq.(2): replace 0.05683 by 0.06583

Erratum for Dissertation [Lö11]

- page 11 : Figure 2.3-b: replace on y-axis with dB values
-10 by 10, -20 by -10, -40 by -20, -60 by -30, -80 by -40
- page 59 : Eq.(4.7): replace 0.05683 by 0.06583
- page 77 : Example 4.2: replace “... with $M = 32$ frequency channels ...”
by “ ... with $M = 16$ frequency channels”

References

- [GK01] E. Galijašević and J. Kliewer. “Design of Maximally Decimated Near-Perfect-Reconstruction DFT Filter Banks with Allpass-Based Analysis Filters”. *Proc. of Asilomar Conference on Signals, Systems, and Computers*, volume 1, pages 577–581, Pacific Grove (California), USA, November 2001.
- [Lö11] H. W. Löllmann. *Allpass-Based Analysis-Synthesis Filter-Banks: Design and Application*. Dissertation, RWTH Aachen University, Aachen, Germany, 2011.
- [LV05] H. W. Löllmann and P. Vary. “Efficient Non-Uniform Filter-Bank Equalizer”. *Proc. of European Signal Processing Conference (EUSIPCO)*, Antalya, Turkey, September 2005.
- [LV06] H. W. Löllmann and P. Vary. “Parametric Phase Equalizers for Warped Filter-Banks”. *Proc. of European Signal Processing Conference (EUSIPCO)*, Florence, Italy, September 2006.

- [LV07a] H. W. Löllmann and P. Vary. “Improved Design of Oversampled Allpass Transformed DFT Filter-Banks with Near-Perfect Reconstruction”. *Proc. of European Signal Processing Conference (EUSIPCO)*, pages 50–54, Poznan, Poland, September 2007.
- [LV07b] H. W. Löllmann and P. Vary. “Uniform and Warped Low Delay Filter-Banks for Speech Enhancement”. *Speech Communications, Special Issue on Speech Enhancement*, 49(7-8):574–587, July 2007.
- [LV08] H. W. Löllmann and P. Vary. “Low Delay Filter-Banks for Speech and Audio Processing”. E. Hänsler and G. Schmidt, editors, *Speech and Audio Processing in Adverse Environments*, chapter 2, pages 13–61. Springer, Berlin, Heidelberg, 2008.
- [LV09] H. W. Löllmann and P. Vary. “Design of Critically Subsampled DFT Filter-Banks with Allpass Polyphase Filters and Near-Perfect Reconstruction”. *Proc. of Intl. Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, pages 3185–3188, Taipei, Taiwan, April 2009.
- [LV11] H. W. Löllmann and P. Vary. “Estimation of the Frequency Dependent Reverberation Time by Means of Warped Filter-Banks”. *Proc. of Intl. Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Prague, Czech Republic, May 2011.
- [LYJV10] H. W. Löllmann, E. Yilmaz, M. Jeub, and P. Vary. “An Improved Algorithm for Blind Reverberation Time Estimation”. *Proc. of Intl. Workshop on Acoustic Echo and Noise Control (IWAENC)*, Tel Aviv, Israel, August 2010.