Errata Scheet

for Publications of H. W. Löllmann

(last updated 01.03.2013)

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 $N_{\mathrm{p}}\cdot\Omega$

[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 $2\,\pi$ 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 $2\,\pi$ 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 [Löl11]

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 27 : Figure 3.3: replace $\varphi_{lin}(\Omega) - 18\,\Omega$ by $\varphi_{lin}(\Omega) - 5\,\Omega$

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.

[Löl11] 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.