

## References

- [1] Antonanzas, N. The inverse filter program developed by Norma Antonanzas can be investigated online at the following web site:  
[www.surgery.medsch.ucla.edu/glottalaffairs/software\\_of\\_the\\_boga.htm](http://www.surgery.medsch.ucla.edu/glottalaffairs/software_of_the_boga.htm)
  
- [2] Bangayan, P., Long, C., Alwan, A., Kreiman, J., and Gerratt, B. “Analysis by Synthesis of Pathological Voices Using the Klatt Synthesiser.” *Speech Communication* 22, pp. 343-368, 1997.
  
- [3] Buder, E. H. “Acoustic Analysis of Voice Quality: A Tabulation of Algorithms 1902-1990.” Included as Chapter 9 in *Voice Quality Measurement*, Kent, R. D. and Ball, M. J., Singular Publishing Group, 2000.
  
- [4] Chasaide, A. N. and Gobl, C. “Vocal Source Variation.” Included as pages 427-461 in *Handbook of Phonetic Sciences*, W. J. and Laver, J., Hardcastle, Oxford. 1997.

- [5] Childers, D. G., and Lee, C. K. "Vocal Quality Factors: Analysis, Synthesis, and Perception." *JASA*, Vol. 90, pp. 2394-2410, 1991.
- [6] Deem, J. F., Manning, W. H., Knack, J. V., and Matesich, J. S.  
"The Automatic Extraction of Pitch Perturbation Using Microcomputers: Some Methodological Considerations." *JSHR*, Vol.32, pp. 689-697, 1989.
- [7] Deller, J.R. Jr. "On the Time Domain Properties of the Two-Pole Model for the Glottal Waveform and Implications for LPC." *Speech Communication*, Vol. 2, pp. 57-63, 1983.
- [8] Dennis, J. E. Jr, Woods, D. J. "New Computing Environments: Microcomputers in Large-Scale Computing." Edited by Wouk, A. *SIAM*, pp. 116-122, 1987.
- [9] Djeradi, A., Guerin, B., Badin, P., and Perrier, P. "Measurement of the Acoustic Transfer Function of the Vocal Tract: a Fast and Accurate Method." *Journal of Phonetics*, Vol 19, pp. 387-395, 1991.
- [10] Endo, Y. and Kasuya, H. "A Speech Analysis-Conversion-Synthesis System Taking Period-to-Period Fluctuations into Account." *Electronics and Communications in Japan*, Part 3, Vol. 82, No. 12, 1999. (Translated)

- [11] Epps, J., Smith, J. R., and Wolfe, J. "A Novel Instrument to Measure Acoustic Resonances of the Vocal Tract During Phonation." *Meas. Sci. Technol.*, Vol. 8 (10), pp. 1112-1121, October, 1997.
- [12] Fant, G., Liljencrants, J, and Lin, Q. G. "A Four Parameter Model of Glottal Flow." *STL-QPSR* 4, pp. 1-12, 1985.
- [13] Fujimura, O. and Lindqvist, J. "Sweep-Tone Measurements of Vocal-Tract Characteristics." *JASA*, Vol 49, No 2, pp. 541-558, 1971.
- [14] Gabelman, B. and Alwan, A. "Analysis by Synthesis of FM Modulation and Aspiration Noise Components in Pathological Voices." In *ICASSP Conference Proceedings*, pp. 449-452, Orlando, FL, May, 2002
- [15] Gabelman, B. and Alwan, A. "Analysis and Synthesis of AM Components of Pathological Voices." In *IEEE Workshop on Speech Synthesis*, Paper #20154. Santa Monica, CA., 9/11/2002. IEEE Catalog Number 02EX555. ISBN 0-7803-7396-0.
- [16] Gabelman, B., Kreiman, J., Gerratt, B., Antonanzas-Barroso, N., and Alwan, A.

“LF Source Model Adequacy for Pathological Voices.” Poster 5aSC17 presented at the 134<sup>th</sup> Meeting of the Acoustical Society of America, San Diego, CA., November, 1997.

- [17] Gabelman, B., Kreiman, J., Gerratt, B., Antonanzas-Barroso, N. “Perceptually Motivated Modeling of Noise in Pathological Voices.” Proceedings of the 16 International Congress on Acoustics and 135<sup>th</sup> Meeting of the Acoustical Society of America, pp. 1293, and unpublished Poster 2pSC30, Seattle, WA., June, 1998.
  
- [18] Hillenbrand, J. “A Methodological Study of Perturbation and Additive Noise in Synthetically Generated Voice Signals.” *Journal of Speech and Hearing Research*, Vol. 30, pp. 448-461, 1987.
  
- [19] House, A. S. and Stevens, K. N. “Estimation of Formant Band Widths from Measurements of Transient Response of the Vocal Tract.” *Journal of Speech and Hearing Research*, Vol. 1, No 4, pp. 309-315, Dec., 1958.
  
- [20] IEEE Press. *Programs for Digital Signal Processing* (Section 8.1). John Wiley & Sons, 1979.

- [21] Kent, R. D., and Read, C. *The Acoustic Analysis of Speech* (Chapt 7). Singular Publishing Group, Inc., San Diego, CA., 1992.
- [22] Klatt, D. H. and Klatt, L. C. "Voice Quality." *Journal of the Acoustical Society of America*, Vol. 87, No. 2, pp. 838, February, 1990.
- [23] Kreiman, J., Gerratt, B.R., Precoda, K., and Berke, G. S. "Individual Differences in Voice Quality Perception." *Journal of Speech and Hearing Research*, Vol 35, pp. 512-520, April, 1995.
- [24] Krom, Guus de. "A Cepstrum-Based Technique for Determining a Harmonics – to-Noise Ratio in Speech Signals." *JSHR 93*, Vol. 36, pp. 254-266, 1993.
- [25] Markel, J. D., Gray, A. H. Jr. *Linear Prediction of Speech*. Springer-Verlag. Berlin, Heidelberg, New York, 1976.
- [26] MATLAB for Windows. Version 4.2c. The Mathworks, Natick, MA. 01760. Copyright 1984-1994.
- [27] Milenkovic, P. "Least Mean Square Measures of Voice Perturbation."

JSHR 30, pp. 529-538, 1987.

- [28] Rabine, L. R., and Schafer, R. W. . *Linear Prediction Coding of Speech in Digital Processing of Speech Signals* (Chapt. 8). Prentice – Hall, Englewood Cliffs, New Jersey, 1993.
  
- [29] Tarnoczy, T. H. “Vowel Formant Bandwidths and Synthetic Vowels.” Letters to the editor, JASA, Vol. 34, pp. 859, 1962.
  
- [30] Tarnoczy, T. H., “Über Eigenfrequenz und Dekrement der Vokalresonatoren der menschlichen Stimme.” Arch. f Sprach und Stimmphysiol, 6, III/IV 75-87, 1942.
  
- [31] Qi, Y., and Bi, N. “A Simplified Approximation of the Four-parameter LF Model of the Voice Source.” JASA, Vol. 96, pp. 1182-1185, 1994.
  
- [32] Sensyn 1.1 version of Klatt synthesizer. Sensimetrics, Cambridge, MA.
  
- [33] Solari, E. *ISA & EISA Theory and Operation*. Annabooks, San Diego, CA., 1992.

- [34] Yumoto, E., Gould, W. J., and Baer, T. "Harmonics to Noise Ratio as an Index of the Degree of Hoarseness." *JASA*, Vol. 71, pp. 1544-1550, 1984.