

LIST OF PUBLICATIONS IN 1990 AND 1991

1990

- Alphen, P. van (1990): "Phone recognition in continuous speech", *J. Acoust. Soc. Am.* **87**(1): S107 (A).
- Alphen, P. van (1990): "Hidden Markov Models and their application in speech recognition", In: *Reader Colloquium Signaalanalyse en Spraak*, IPO report 765, contribution 10, 6 pp.
- Bergem, D.R. van (1990): "In defense of a probabilistic view on word recognition", *Proceedings of the Institute of Phonetic Sciences Amsterdam* **14**: 53-66.
- Bergem, D.R. van (1990): "Pitch period estimation by filtering the fundamental frequency out of the speech waveform", *Proceedings of the Institute of Phonetic Sciences Amsterdam* **14**: 17-26.
- Bergem, D.R. van (1990): "The influence of linguistic factors on vowel reduction", *Proceedings of Linguistics and Phonetics '90*, Prague (in press).
- Bezooijen, R. van (1990): "Evaluation of speech synthesis for Dutch: comparison of synthesis systems, intelligibility tests, and scaling methods", *SPIN-ASSP report* **22**, 107 pp.
- Bezooijen, R. van & Pols, L.C.W. (1990): "Evaluating text-to-speech systems: some methodological aspects", *Speech Communication* **9**(4): 263-270.
- Boersma, P. (1990): "Modelling the distribution of consonant inventories", *Proceedings of Linguistics and Phonetics '90*, Prague (in press).
- Bosch, L.F.M. ten (1990): "Rule extraction for allophone synthesis", *Proceedings of the ESCA Workshop on Speech Synthesis*, Autrans, France: 17-20.
- Bosch, L.F.M. ten (1990): "Rule extraction for allophone synthesis", In: *Reader Colloquium Signaalanalyse en Spraak*, IPO report 765, contribution 8, 6 pp.
- Bosch, L.F.M. ten, Holsteijn, Y. van & Jongenburger, W. (1990): Tripreport of the workshop on speech synthesis, Autrans, *SPIN/AASSP-report* **25**: 1-12. (in Dutch)
- Broeder, D. (1990): "CADDA manual", *SPIN/ASSP-report* **23**, 48 pp. (in Dutch)
- Broeder, D. (1990): "SESAM manual", *SPIN/ASSP-report* **24**, 82 pp. (in Dutch)
- Dijk, J.S.C. van (1990): "On dipoles and the radiating membrane", In: P. Dallos, C.D. Geisler, J.W. Matthews, M.A. Ruggero and C.R. Steele (Eds.), *The Mechanics*

- and Biophysics of Hearing*, Lecture Notes in Biomathematics **87**, Springer-Verlag, New York: 340-347.
- Dijk, J.S.C. van (1990): "Simulation of cochlear filtering", In: J. Cornelis and S. Peeters (Eds.), *Proceedings North Sea Conference on Biomedical Engineering 1990*, Topic 8 Modelling and Simulation: 87-92.
- Jansonius-Schultheiss, K. (1990): "Speech and Language Evaluation in Language Developmental Disorders", Syllabus Speech- and Language Disorders in Children, PAOG KUN, Nijmegen: 19-28. (in Dutch)
- Jansonius-Schultheiss, K., Comijs, H. & Leyenaar, B. (1990): "Developments in the Treatment of Cleft Lip and Palate", *Logopedie en Foniatrie* **62**(9): 262-267.
- Jansonius-Schultheiss, K. & Stelt, J.M. van der (1990): "Literature Review for the research project: The influence of an oral plate on the speech development and interaction in the first years of life of cleft-palate infants", Final report to the Netherlands Prevention Fund concerning project 28-1042, *Report of the Institute of Phonetic Sciences Amsterdam* **111**, 68 pp. (in Dutch)
- Jansonius-Schultheiss, K. & Stelt, J.M. van der (1990): "Parents' Book: Questions on the development of your baby", Final report to the Netherlands Prevention Fund concerning project 28-1042. *Report of the Institute of Phonetic Sciences Amsterdam* **113**, 47 pp. and 3 appendices. (in Dutch)
- Koopmans-van Beinum, F.J. (1990): "A database for infant speech: wish-dream or possibility in future?", *NET-bulletin* 1990: 38-42. (in Dutch)
- Koopmans-van Beinum, F.J. (1990): "Spectro-temporal reduction and expansion in spontaneous speech and read text: the role of focus words", *Proceedings of the 1990 International Conference of Spoken Language Processing* **1**, Kobe, Japan: 21-24.
- Koopmans-van Beinum, F.J. (1990): "The source-filter model of speech production applied to early speech development", *Proceedings of the 1990 International Conference of Spoken Language Processing* **2**, Kobe, Japan: 1321-1324.
- Koopmans-van Beinum, F.J., Jansonius-Schultheiss, K. & Stelt, J.M. van der (1990): "The influence of an oral plate on the speech development and interaction in the first years of life of cleft-palate infants", Final report to the Netherlands Prevention Fund concerning project 28-1042. *Report of the Institute of Phonetic Sciences Amsterdam* **110**, 158 pp. (in Dutch)
- Kuijpers, C.T.L. (1990): "The voiced-voiceless distinction in young children", *Abstracts of the Fifth International Congress for the study of child language*, Budapest, Hungary: 111.
- Leeuw, I. de (1990): "The relation between perceptual and clinical parameters of voice quality of patients with early glottic cancer before and after radiotherapy and normal speakers", *Proceedings of the Institute of Phonetic Sciences Amsterdam* **14**: 27-38.

- Os, E.A. den (1990): "The development of prosody in relation to language acquisition", *NET-bulletin* 1990: 6-8. (in Dutch)
- Os, E.A., den (1990): "The development of prosody", *Abstracts of the Fifth International Congress for the study of child language*, Budapest, Hungary: 56.
- Os, E.A. den (1990): "Development of temporal properties in the speech of one baby between one and three years of age", *Proceedings of the Institute of Phonetic Sciences Amsterdam* 14: 39-52.
- Pols, L.C.W. (1990): "Assessing the speech quality of text-to-speech synthesizers", *Proceedings VERBA '90, International Conference on Speech Technology*, Rome, Italy: 295-302.
- Pols, L.C.W. (1990): "Does improved performance also contribute to more phonetic knowledge?", *Proceedings of the ESCA Tutorial Day on Speech Synthesis*, Autrans, France: 49-54.
- Pols, L.C.W. (1990): "How useful are speech databases for rule synthesis development and assessment?", *Proceedings of the 1990 International Conference of Spoken Language Processing* 2, Kobe, Japan: 1289-1292.
- Pols, L.C.W. (1990): "Improving synthetic speech quality by systematic evaluation", In: H.Fujisaki (Ed.), *Recent research toward advanced man-machine interface through spoken language*, Tokyo: 445-453.
- Pols, L.C.W. (1990): (Ed.) Special issue on speech input/output assessment and speech databases, *Speech Communication* 9(4): 263-388, Editorial/Biography, v-vi.
- Pols, L.C.W. (1990): "'Standardized' synthesis evaluation methods", *Proceedings International Workshop on International Coordination and Standardization of Speech Database and Assessment Techniques for Speech Input/Output*, Kobe, Japan: 53-60.
- Son, R. van (1990): "Formant frequencies of Dutch vowels in a text, read at normal and fast rate", *SPIN-ASSP report* 16, Stichting Spraaktechnologie, Utrecht, 22 pp.
- Son, R. van & Pols, L.C.W. (1990): "Formant frequencies of Dutch vowels in a text, read at normal and fast rate", *J. Acoust. Soc. Am.* 88(4): 1683-1693.
- Stelt, J.M. van der (1990): "Are intentional movements basic to speech development", *Abstracts of the Fifth International Congress for the study of child language, addendum*, Budapest, Hungary: 13.
- Stelt, J.M. van der (1990): "Mother-child communication by eye and by ear", *Van Horen en Zeggen* 31 (2): 51-56. (in Dutch)
- Stelt, J.M. van der & Jansonius-Schultheiss, K. (1990): "Code book for mother-infant interaction from 0 to 24 months", Final report to the Netherlands Prevention

Fund concerning project 28-1042. *Report of the Institute of Phonetic Sciences Amsterdam* **112**, 31 pp. and appendix. (in Dutch)

- Tielen, M.T.J. (1990): "Perception of the voices of men and women in relation to their profession", In: J. Laver, M. Jack & A. Gardiner (Eds.), *Proceedings of the Tutorial and Research Workshop on Speaker Characterization in Speech Technology*, Edinburgh: 192-197.
- Wieringen, A. van & Pols, L.C.W. (1990): "Transition rate-dependent processing of one-formant speech-like stimuli", *Proceedings of the Institute of Phonetic Sciences Amsterdam* **14**: 1-16.

1991

- Alphen, P. van & Pols, L.C.W. (1991): "Comparing various feature vectors in automatic speech recognition", *Proceedings Eurospeech 91* **2**, Genova: 533-536.
- Bakkum, M.J., Plomp, R. & Pols, L.C.W. (1991): "Objective evaluation of vowel pronunciation", *J. Acoust. Soc. Am.* **89(4)**, Pt. 2: 1871 (A).
- Bergem, D.R. van (1991): "Acoustic and lexical vowel reduction", *Proceedings of the ETRW 'Phonetics and Phonology of Speaking Styles'*, Barcelona: 10.1-10.5.
- Bergem, D.R. van (1991): "The influence of sentence accent, word stress, and word class on the quality of vowels", *Proceedings Eurospeech 91* **3**, Genova: 1455-1458.
- Bezooijen, R. van (1991): "Evaluation of synthetic speech", *SPIN/ASSP-report* **28**, 22 pp.
- Bezooijen, R. van & Pols, L.C.W. (1991): "Evaluation of allophone and diphone based text-to-speech conversion at the paragraph level", *Proceedings of the XIIth International Congress of Phonetic Sciences* **3**, Aix-en-Provence: 498-501.
- Bezooijen, R. van & Pols, L.C.W. (1991): "Performance of text-to-speech conversion for Dutch: a comparative evaluation of allophone and diphone based synthesis at the level of the segment, the word, and the paragraph", *Proceedings Eurospeech 91* **2**, Genova: 871-874.
- Bezooijen, R. van & Vieregge, W.H. (1991): "Phonetic transcription as a means of diagnostically evaluating synthetic speech", *Proceedings of the XIIth International Congress of Phonetic Sciences* **4**, Aix-en-Provence: 138-141.
- Bonder, L.J. & Bosch, L.F.M. ten (1991): "Recent developments in the research of the structure of vowel systems", *Proceedings of the XIIth International Congress of Phonetic Sciences* **1**, Aix-en-Provence: 160-165.
- Bosch, L.F.M. ten (1991): "ALLODIF: rule extraction for allophone synthesis", *SPIN/ASSP-report* **33**, 43 pp.

- Bosch, L.F.M. ten (1991): "Modelling vowel systems by effort and contrast", *Proceedings of the XIIth International Congress of Phonetic Sciences* 4, Aix-en-Provence: 406-409.
- Bosch, L.F.M. ten (1991): "On the structure of vowel systems aspects of an extended vowel model using effort and contrast", Dissertation University of Amsterdam, 190 pp.
- Cuccharini, C. & Bezooijen, R. van (1991): "The effect of linguistic expectancy on phonetic transcription: Developing an adequate alignment algorithm", *Proceedings of the XIIth International Congress of Phonetic Sciences* 4, Aix-en-Provence: 134-137.
- Dijk, J.S.C. van (1991): "Notes on auditive coding of sophisticated signals", *Proceedings Eurospeech 91* 3, Genova: 1433-1436.
- Houtgast, T & Verhave, J.A. (1991): "A physical approach to speech quality assessment: correlation patterns in the speech spectrogram", *Proceedings Eurospeech 91* 1, Genova: 285-289.
- Jansonius-Schltheiss, K. (1991): "Articulatory proficiency and phonological abilities in the first two years of life in two normal born and two cleft lip and palate children", Abstracts Second International Symposium Specific Speech and Language Disorders in Children, Harrogate, England, 26th-30th May: FP 45.
- Jansonius-Schltheiss, K. (1991): "The development of articulatory skills in cleft palate babies", *Proceedings of the XIIth International Congress of Phonetic Sciences* 4, Aix-en-Provence: 346-348.
- Jansonius-Schltheiss, K., Coppenolle, L. van & Beyaert, E. (1991): "Feeding problems in cleft palate infants", In: *Deviant Mouth Behaviours, Introduction, Assessment and Treatment*, fifth revised edition, Acco, Leuven, Chapter 10: 181-195. (in Dutch)
- Jansonius-Schltheiss, K., Koopmans-van Beinum, F.J. & Stelt, J.M. van der (1991): "The influence of an oral plate upon the speech development of cleft palate babies", *Abstract 11, 48th Annual Meeting Americal Cleft Palate-Cranofacial Association*, 16th-21th March, Hilton Head: 33.
- Jansonius-Schltheiss, K., Stelt, J.M. van der & Koopmans-van Beinum, F.J. (1991): "Speech development and interaction in cleft lip and palate babies (0-2;0 years)", *Abstracts Cleft Palate Research, Fourth European Cranio-facial Congress Noordwijkerhout, The Netherlands*, 24th-27th April: 62.
- Koopmans-van Beinum, F.J. (1991): "A peak-and-level model for focus words in read and spontaneous natural speech and in synthetic speech", *Proceedings Eurospeech 91* 3, Genova: 1459-1462.
- Koopmans-van Beinum, F.J. (1991): "Spectro-temporal reduction and expansion in spontaneous speech and read text: focus words versus non-focus words", *Proceedings of the ETRW 'Phonetics and Phonology of Speaking Styles'*, Barcelona: 36.1-36.5.

Koopmans-van Beinum F.J. & Kuijpers, C.T.L. (Eds.) (1991): "Profile of the Institute of Phonetic Sciences", *Report of the Institute of Phonetic Sciences Amsterdam* **115**, 45 pp.

Kuijpers, C.T.L. (1991): "Temporal control in speech of children and adults", *Proceedings of the XIIth International Congress of Phonetic Sciences* **4**, Aix-en-Provence: 150-153.

Laan, G.P.M. (1991): "The importance of spectral quality of vowels for speech perception", *Report of the Institute of Phonetic Sciences Amsterdam* **116**, 34 pp. (in Dutch)

Laan, G.P.M., Bergem, D.R. van & Koopmans-van Beinum, F.J. (1991): "The importance of spectral quality of vowels for the intelligibility of sentences", *Proceedings Eurospeech 91* **3**, Genova: 1129-1132.

Leeuwen, H.C. van & Lindert, E. te (1991): "Speech Maker: text-to-speech synthesis based on a multi-level, synchronized data structure", *Proceedings ICASSP 91* **2**: 781-784, Toronto.

Lindert, E. te (1991): "Spraakmaker-2: Text-to-speech system for the Dutch language. User manual", *SPIN/ASSP Report* **43**, 62 pp.

Lindert, E. te & Leeuwen, H.C. van (1991): "Speech maker: text-to-speech conversion based on a multi-level, synchronized data structure", *Proceedings Eurospeech 91* **3**, Genova: 1231-1234.

Nooteboom, S.G. & Bezooijen, R. van (1991): "Five years of coordinated research on text-to-speech conversion for Dutch: an overview", *Proceedings of the XIIth International Congress of Phonetic Sciences* **3**, Aix-en-Provence: 470-473.

Pols, L.C.W. (1991): "Evaluating the performance of speech input/output systems. A report on the ESPRIT-SAM project", *Proceedings DAGA'91*: 139-150, Bochum.

Pols, L.C.W. (1991): "Gaining phonetic knowledge whilst improving synthetic speech quality?", *J. Phonetics* **19(1)**: 139-146.

Pols, L.C.W. (1991): "Quality assessment of text-to-speech synthesis-by-rule", In S. Furui & M.M. Sondhi (Eds.), *Advances in Speech Signal Processing*, Marcel Dekker Inc., Ch. 13: 387-416.

Pols, L.C.W. (1991): "Speech perception in the next ten years: Technological solutions vs. acquiring actual speech knowledge", *Proceedings of the XIIth International Congress of Phonetic Sciences* **1**, Aix-en-Provence: 130-133.

Son, R. van (1991): "SPECRED: Aspects of speechrate on spectro-temporal characteristics of speech", *SPIN/ASSP-report* **42**, 49 pp.

Son, R.J.J.H. van & Pols, L.C.W. (1991): "The influence of formant track shape on the perception of synthetic vowels", *Proceedings Eurospeech 91* **3**, Genova: 1117-1120.

- Stelt, J.M. van der (1991): "Mother-infant interaction and intentional communication", *Report of the Institute of Phonetic Sciences Amsterdam* **114**, 77 pp. (in Dutch)
- Tielen, M.T.J. & Koopmans-van Beinum, F.J. (1991): "Evaluation of voice and pronunciation characteristics of men and women", *Proceedings of the XIIth International Congress of Phonetic Sciences* **2**, Aix-en-Provence: 178-181.
- Wieringen, A. van & Pols, L.C.W. (1991): "Transition rate as a cue in the perception of one-formant speech-like synthetic stimuli", *Proceedings of the XIIth International Congress of Phonetic Sciences* **2**, Aix-en-Provence: 446-449.
- Zanten, E. van, Damen, L. & Houten, E. van (1991): "The ASSP Speech Database", *SPIN/ASSP Report* **41**, 26 pp.