

RECENT PUBLICATIONS

April 1989 - March 1990

A. Publications in English

A.1. Publications in Periodicals

A.1.i. Original Contributions

De Boysson-Bardies, B., Hallé P., Sagart. L and Durand. C: A Cross-Linguistic Investigation of Vowel Formants in Babbling. *Journal of Child Language*, 16, 1-17. 1989.

Fukuzawa, K., I. Tatsumi, S. Sasanuma, Y. Fukusako, and M. Itoh: Lexical Semantic Memory and Confrontation Naming in Aphasic Patients. *Aphasiology*, 3, 249-265, 1989.

Hallé, P., de Boysson-Bardies. B and Durand. C: Babillage et Premiers Mots. *Glossa*(special issue), 1990(in press).

Hosoi, H., S. Imaizumi, K. Murata and F. Ohta: Hearing Aid Evaluation Using Psychoacoustical Proximity between Japanese Monosyllables. *Audiology*, 28, 171-178, 1989.

Kojima, S. and S. Kiritani: Voco-Auditory Functions in the Chimpanzee: Consonant Perception. *J. of Primatology*, 1990(in press).

Kojima, S. and S. Kiritani: Voco-Auditory Functions in the Chimpanzee: Vowel Perception, Evolution, 1990(in press).

A.1.ii. Review Articles

none

A.1.iii Progress Reports

Fukuda, M., S. Niwa, K. Hiramatsu, S. Hayashida, O. Saitoh, T. Kameyama, K. Nakagome, A. Iwanami, T. Sasaki and K. Itoh: Interventive Efforts and Intra-Individual Variations of P300 Amplitudes in Schizophrenics. *Ann. Bull. RILP*, 23, 153-161, 1989.

Fukusako, Y., K. Endo, K. Konno, K. Hasegawa, I. Tatsumi, S. Masaki, M. Kawamura, J. Shiota and H. Hirose: Changes in the Speech of Spastic Dysarthric Patients after Treatment Based on Perceptual Analysis. *Ann. Bull. RILP*, 23, 119-140, 1989.

Hayashi, A., S. Imaizumi, T. Harada and H. Hosoi: Effects of Stimulus Duration and Inter-Stimulus Interaction of Vowel Intelligibility for Normal and Hearing-Impaired Subjects.

- Ann. Bull. RILP, 23, 163-172, 1989.
- Hirose, H.: Production of the Four Chinese Tones by an Esophageal Speaker. Ann. Bull. RILP, 23, 141-152, 1989.
- Imagawa, H. and S. Kiritani: High-Speed Speech Analysis System Using a Personal Computer with DSP and its Applications to Pronunciation Training. Ann. Bull. RILP, 23, 173-185, 1989.
- Imaizumi, S., S. Kiritani, H. Fukawa and S. Saito: A Polynomial Glottal Source Model for the Synthesis of Various Voice Qualities. Ann. Bull. RILP, 23, 109-118, 1989.
- Imaizumi, S. and S. Kiritani: Effects of Speaking Rate on Formant Trajectories and Inter-Speaker Variations. Ann. Bull. RILP, 23, 27-37, 1989.
- Kiritani, S., H. Hirose and H. Imagawa: Vocal Cord Vibration at the Release of the Consonant-Observation by Means of High-Speed Digital Image Recording. Ann. Bull. RILP, 23, 1-9, 1989.
- Kuriyagawa, F. and M. Sawashima: Word Accent, Devoicing and Duration of Vowels in Japanese. Ann. Bull. RILP, 23, 85-108, 1989.
- Makiyama, K., M. Sawashima, S. Niimi, S. Horiguchi and K. Tsunoda: An Aerodynamic Study of the Singing Voice. Ann. Bull. RILP, 23, 17-26, 1989.
- Masuko, Y., H. Imagawa and S. Kiritani: Japanese Pronunciation-Training Using a Personal Computer. Ann. Bull. RILP, 23, 65-74, 1989.
- Mochizuki-Sudo, M. and S. Kiritani: Production and Perception of the Rhythmic Pattern of English by Japanese Learners. Ann. Bull. RILP, 23, 75-84, 1989.
- Mazuka, R., K. Itoh, S. Kiritani, S. Niwa, K. Ikejiri and K. Naitoh: Processing of Japanese Garden-Path, Center-Embedded, and Multiply-Left-Embedded Sentences: Reading Time Data from an Eye Movement Study. Ann. Bull. RILP, 23, 187-212, 1989.
- Niimi, S. and K. Kawabata: The Palatotracers: A Newly Developed Device to Measure the Palatal Shape. Ann. Bull. RILP, 23, 11-16, 1989.
- Sekimoto, S.: Normalization of Frequency-Compressed Voiceless Fricatives. Ann. Bull. RILP, 23, 39-49, 1989.
- Suzuki, H., G. Ohyama and S. Kiritani: A Comparison of Evaluations by American and Japanese Listeners of English Spoken by Japanese Speakers. Ann. Bull. RILP, 23, 51-57, 1989.
- Suzuki, H., S. Kiritani and H. Imagawa: For Improvement of Eng-

lish Intonation Learning System. Ann. Bull. RILP, 23, 59-63, 1989.

A.1.iv. Avstracts of Meeting Papers

none

A.2. Contributions in Meeting Proceedings etc.

A.2.i. Printed Texts of Symposium Papers etc.

Hirose, H., S. Kiritani and H. Imagawa: Clinical Application of High-Speed Digital Imaging of Vocal Fold Vibration. Preprint of 6th Vocal Fold Physiology Conference, 1989.

Imaizumi, S. and S. Kiritani: Perceptual Evaluation of a Glottal Source Model for Voice Quality Control. Preprint of the 6th Vocal Fold Physiology Conference, 1989.

Imaizumi, S. and S. Kiritani: A Study on Formant Synthesis by Rule with Variable Speaking Rate. Preprints of the Third Symposium on Advanced Man-Machine Interface through Spoken Language. 11, 1-8, 1989.

A.2.ii Meeting Papers in Proceedings or Digests

Halle, P., S. Niimi and S. Imaizumi: Tone-Specific Patterns of Laryngeal Control in Chinese. Proc. Speech Research '89, Budapest, 339-342, 1989.

Hirose, H.: High-Speed Digital Imaging of Vocal Cord Vibration. Abstracts of International Symposium of Phonosurgery and Phoniatrics. Karlovy Vary, 11, 1989.

Itoh, K.: A Neuro-Synaptic Model of Thalamo-Cortical System Can Simulate EEG Waves with Normal and Abnormal Parameters. Proceedings of the 31th Congress of International Union of Physiological Science, 17, 315-316, 1989.

Kaneko, I., T. Ishii, K. Furukawa, T. Shitara and S. Niimi: Movement Pattern of the Hyoid Bone in the Swallowing and its Aging. Abstracts of the 6th World Congress of Bronchoesophagol., 72, 1989.

Kiritani, S. and H. Hirose: Observation of Pathological Vocal Cord Vibration by Means of High-Speed Digital Image Recording. Abstracts of the 6th World Congress of Bronchoesophagol., 108, 1989.

Kumakawa, K., H. Hirose and H. Yamaguchi: Image Analysis of the Contour of Paralyzed Vocal Cord during Phonation Using Digital Radiography. Abstracts of the 6th World Congress of

Bronchoesophagol., 40, 1989.

Sawashima, M., H. Hirose, M. Abe and N. Nishizawa: Use of Fiberscope for Evaluating VP Closure. Preprints of International Cleft Palate Symposium. Budapest, 1989.

Sawashima, M., H. Yamaguchi and Y. Watanabe: Postoperative Care of Laryngeal Polyp. Abstracts of International Symposium of Phonosurgery and Phoniatics. Karlovy Vary, 22, 1989.

A.3. Contributions in Separate Publications

A.3.i Part of a Textbook, Handbook, Anthologies etc.

Saitoh, S., S. Kiritani and K. Shirai eds.: Speech Technology. Ohm-Sha, 1990(in Press).

A.3.ii. Monographs

none

A.4. Translations

none

B. Publications in Japanese

B.1. Publications in Periodicals

B.1.i. Original Contributions

Fukusako, Y., K. Endo, K. Konno, K. Hasegawa, I. Tatsumi, S. Masaki, M. Kawamura, T. Shiota, and H. Hirose: Changes in Speech of Spastic Dysarthric Patients Before and After Treatment Based on Perceptual Analysis. Jpn. J. Logop. Phoniatr., 31, 209-217, 1990.

Fukusako, Y., T. Ohoshige, M. Onuma, K. Aoki, T. Fujimoto, and Y. Hayashi: A Survey of Awareness and Attitude toward Medical Rehabilitation Service among Staffs of Tokyo Metropolitan Geriatric Hospital --2nd Report; The Analysis of Results for Medical Staffs and Administration Staffs--. Sogo Rehabilitation (in press).

Harada, K., H. Naganuma, A. Yagi, K. Furukawa, T. Shitara and S. Niimi: Statistical Observation of Pediatric Endoscopy(over a 14-Year Period). J. Jpn. Bronchoesophagol. Soc. 40, 41-48, 1989.

Hayashi, Y., T. Ohoshige, M. Onuma, K. Aoki, T. Fujimoto, Y. Fukusako: A Survey of Awareness and Attitude toward Medical

Rehabilitation Service among Staffs of Tokyo Metropolitan Geriatric Hospital --1st Report; The Analysis of Results for Doctors and Nurses--. Sogo Rehabilitation, 17, 777-784, 1989.

Hayashi, A., S. Imaizumi, T. Harada, H. Seki and H. Hosoi: Effects of Ear's Temporal Window on VOT Perception. Communication Disorder Research, 18, 119-126, 1990.

Iida, s., H. Hosoi, F. Ohta and S. Imizumi: Studies of Stimulus in Dichotic Listening Test. Audiology Japan, 32, 778-783, 1989.

Kondou, R., I. Kawabata, S. Horiguchi and S. Niimi: Evaluation of Swallowing Using "Agar-Barium". J. Jpn. Bronchoesophagol. Soc. 40, 284-287, 1989.

Kumakawa, K., H. Yamaguchi and H. Hirose: Image Analysis of the Contour of the Paralyzed Vocal Cord during Phonation. J. Otolaryngol. Jpn. 93, 61-70, 1990.

Niimi, S.: Evaluation of the Ultrasonic System as a Speech Training Tool. J. Jour. Adult Dis. 19, 164-165, 1989.

Sakuma, N., S. Sasanuma, T. Watamori, Y. Fukusako, M. Itoh, H. H. Monoi and K. Fukuzawa: Impairment of Narrative Production Ability in Patients with Dementia --A Study Based on the Picture Description Task--. Jpn. J. Neuropsychol., 5, 134-145, 1989.

Suzuki, K., A. Okamoto, Y. Hara, K. Hasegawa and S. Niimi: Speech Results of the Palatal Mucosal Flap Method. J. J. C.P.A., 14, 123-131, 1989.

Yabe, T., M. Abe and M. Sawashima: Otitis Media with Effusion in Patients with Cleft Palate and Congenital Velopharyngeal Insufficiency. J. Otolaryngol. Jpn. 92, 1012-1020, 1989.

Yamada, A., S. Imaizumi, T. Harada and H. Hosoi: The Identification of the Vowels with Variation of Temporal Factors by Sensorineural Hearing-Impaired. Audiology Japan, 32, 130-136, 1989.

B.1.ii. Review Articles

Fukusako, Y.: Language Rehabilitation for Aphasic Patients. J. Tokyo Igaku(in press).

Hirose, H.: Laryngeal Articulatory Adjustments. Larynx Jpn. 1, 36-40, 1989.

Hirose, H.: Stomato-Pahryngology and Articulation Disorders. Stomatopharyngol. 1, 77-83, 1989.

- Hirose, H.: Voice Disorders. JOHNS. 5, 542-546, 1989.
- Hirose, H.: Otoscopy at the Early Meiji Era. JOHNS. 5, 610-612, 1989.
- Hirose, H.: Observation and Inference of Manuel Garcia. JOHNS. 5, 1508-1510, 1989.
- Hirose, H.: Aging of Voice. JOHNS. 5, 1739-1744, 1989.
- Hirose, H.: Control of Words and the Vocal Cords. Springer Science, 4, 6-8, 1989.
- Hirose, H.: Physiological Changes in Laryngectomees and their Care. Ginrei, 36, 39-42, 1989.
- Hirose, H.: Voice in the Aged. In the Aged and Orolaryngology, ENT Mook, 2, 136-144, 1989.
- Hirose, H.: Training System of Dysarthric Subjects. Kango-Gijutus, 35, 60-63, 1989.
- Hirose, H.: Vocal Rehabilitation of the Laryngectomized. Igaku-no-Ayumi, 148, 739, 1989.
- Hirose, H.: Prosodic Control of Speech - Some Physiological Considerations. Larynx Jpn. 1, 105-110, 1989.
- Imaizumi, S., A. Hayashi, H. Seki, T. Harada and H. Hosoi: A Study on the Speech Perception Disorder from Temporal Aspects of Hearing - Toward Better Hearing Aids-. BME, 27-33, 1990.
- Niimi, S.: Laryngeal Paralysis. JOHNS. 5, 528-532, 1989.
- Niimi, S.: Japanese Traditional Way of Singing and the Larynx. Otolaryngology-Head and Neck Surgery, 62, 160-161, 1990.
- Okazaki, K., N. Ainoda, A. Ohira, M. Kato, F. Taguchi, T. Fukuda, M. Miura and M. Sawashima: A Survey on Speech-Language Management of Cleft Palate Patients. Jpn. J. Logoped. Phoniatr. 30, 277-284, 1989.
- Sawashima, M.: Function of the Larynx in Speech. Higher Brain Function Res. 9, 184-191, 1989.

B.1.iii. Progress Reports

none

B.1.iv. Abstracts of Meeting Papers

Fukusako, Y. and Y. Hayashi: A Survey of Awareness and Attitude toward Medical Rehabilitation Service among Staffs of Tokyo Metropolitan Geriatric Hospital --The Analysis of Results for Medical Staffs and Administration Staffs--. Jpn. J. Rehab. Med., 26, 492-493, 1989.

Hayashi, A., S. Imaizumi, H. Seki, T. Harada and H. Hosoi: Effects of Temporal Window upon Speech Perception. Audiology Japan, 32, 5, 437-438, 1989.

Hayashida, S., J. Yamaoka, S. Niwa, K. Hiramatsu, M. Fukuda, K. Itoh, O. Saitoh, A. Iwanami and T. Sasaki: Initial Stage of Stimulus Discrimination Reflected by Negative Components - Using Sllable Discrimination Task. Jpn. J. EEG and EMG, 17, 408, 1989.

Hirose, H.: Vocal Rehabilitation after Total Laryngectomy: Modulator's Comment. Jpn. J. Bronchoesophagol. 40, 133, 1989.

Hirose, H.: Prosodic Control of Speech . J. Otolaryngol. Jpn. 92, 1821-1822, 1989.

Iwanami, A., O. Saitoh, S. Hayashida, S. Niwa, K. Hiramatsu, M. Fukuda, T. Kameyama, K. Nakagome, T. Sasaki and K. Itoh: Context Effects and P300. Jpn. J. EEG and EMG, 17, 409, 1989.

Kiritani, S., H. Imagawa and H. Hirose: High-Speed Digital Imaging of Vocal Fold Vibration during Running Speech Using a Fiberscope. Jpn. J. Bronchoesophagol. 40, 187, 1989.

Kiritani, S., H. Imagawa and H. Hirose: High-Speed Digital Image Recording of Vocal Fold Vibration during Running Speech by Use of a Fiberscope. J. Otolaryngol. Jpn. 92, 1740, 1989.

Kumagawa, K., H. Yamaguchi and H. Hirose: Image Analysis of Paralyzed Vocal Fold during Phonation. Jpn. J. Bronchoesophagol 40, 186, 1989.

Murakami, Y., S. Murayama, M. Yokoyama, M. Mizuno, S. Niimi and H. Hirose: A Histopathological Study of the Intrinsic Laryngeal Muscle in ALS Subjects. Jpn. J. Bronchoesophagol. 40, 160, 1989.

Ohta, Y., F. Yanagi, Y. Tanino, M. Yamamoto, M. Oda, A. Komatsuzaki and H. Hirose: A Case of Shy-Drager Syndrome with Relatively Early Onset of Bilateral Vocal Fold Immobility. Jpn. J. Bronchoesophagol. 40, 206, 1989.

Ohyama, G., H. Hirose, S. Kiritani, Y. Fukusako and Y. Watanabe: A Study of Quantitative Evaluation of Dysarthria(3rd Report). Jpn. J. Logop. Phoniatr. 31, 65-66, 1990.

Ohyama, G., H. Hirose, Y. Watanabe and K. Fujiwara: A Preliminary Study of Quantitative Evaluation of Dysarthria. J. Otolaryngol. Jpn. 92, 1821-1822, 1989.

Saitoh, O., S. Niwa, K. Hiramatsu, M. Fukuda, T. Kameyama and K. Itoh: Context Effects and P300. Jpn. J. EEG and EMG, 17, 296-297, 1989.

Yamaguchi, H., M. Sawashima, Y. Watanabe, K. Sara and H. Hirose: Three Cases of Functional Dysphonia. J. Otolaryngol. Jpn. 92, 1714, 1989.

Watanori, T., S. Sasanuma, Y. Fukusako and H. Monoi: The Relationship between the Age of Onset and Nonverbal Perception in Aphasic Patients. Jpn. J. of Rehab. Med., 26, 383-384, 1989.

Watanabe, Y., H. Yamaguchi, H. Hirose and M. Sawashima: Four Cases of Functional Dysphonia. Jpn. J. logop. Phoniatr. 31, 101, 1990.

B.2. Contributions in Meeting Proceedings etc.

B.2.i. Printed Texts of Symposium Papers etc.

Hayashi, A., S. Imaizumi, T. Harada, H. Seki and H. Hosoi: Relationships between Ear's Temporal Window and VOT Perception - Experimental Investigation-. IEICE Technical Report, SP89-131, 1990.

Igarashi, K., H. Imagawa, S. Imaizumi, S. Kiritani and S. Saito: A Study on Voice Quality Control Based on a Polynomial Model of Glottal Source. IEICE Technical Report, SP89-142, 1990.

Imagawa, H. and S. Kiritani: A Real-Time Pitch and Format Extraction System Using a DSP, and its Applications for Speech Pronunciation Training. IEICE Technical Report, SP89-36, 1989.

Imaizumi, S. and S. Kiritani: A Model for Formant Trajectories Taking into Account of the Variations due to Speaking Rate. Research Report No. PASL 01-5-1, Grant-in-Aid for Scientific Research on Priority Areas, the Ministry of Education, Science and Culture, Japan, 1989.

Imaizumi, S. and S. Kiritani: A Study on the Perceptual Evaluation Methods of Voice Quality. IEICE Technical Report, 4-1-4-6, 1989.

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Ministry of Education , Science and Culture, Japan, 1989.

Imaizumi, S., S. Kiritani, M. Takahashi and K. Shirai: A Study on Formant Synthesis by Rule with Variable Speaking Rate. IEICE Technical Report, SP89-64, 1989.

Kiritani, S., S. Imaizumi, N. Higuchi, Y. Sonoda, R. Morita, M. Matsumura, H. Sato, H. Fujisaki, K. Hirose, Y. Sagisaka, H. Morikawa and Y. Sato: Studies on Advanced Technique for Speech Synthesis. 1989 Annual Report of Grant-in-Aid for Scientific Research of Priority Areas, Advanced Man-Machine Interface through Spoken Language, The Ministry of Education, Science and Culture, Japan, March, 1990, 49-60, 1990.

Saitoh, O, K. Itoh and S. Niwa: Context Processing and P300. Proceedings of the JSMEBE Professional Group Meeting on Biological/Environmental Time Series Analysis, 1, 1989.

Shimura, Y., S. Imaizumi, H. Imagawa, T. Ichijima and K. Saito: Infants' Vocalization Observed in Verbal Communication. IEICE Technical Report, SP89-64, 1989.

B.2.11 Meeting Papers in Proceedings of Digests

Fukuda, M., S. Niwa, K. Hiramatsu, S. Hayashida, K. Itoh, O.Saitoh, A. Iwanami and T. Sasaki: Efforts on Intra-Individual Variations of P300 Amplitudes in Schizophrenics - Effects by Intervention at Mental Level. Proceedings of the 19th Conference of EEG and EMG, Okayama, 247, 1989.

Fukuda, M., S. Niwa, K. Hiramatsu, O. Saitoh, K. Nakagome, A. Iwanami, T. Sasaki, S. Hayashida and K. Itoh: Efforts on Intra-Individual Variations of P300 Amplitudes in Schizophrenics. Proceedings of the 12th Conference of Jpn. Soc. Biol. Psychiatr, Otsu, 78, 1990.

Fukusako, Y., Y. Hayashi, T. Ohoshige, M. Onuma, K. Aoki, T. Fujimoto: A Survey of Awareness and Attitude toward Medical Rehabilitation Service among Staffs of Tokyo Metropolitan Geriatric Hospital --The Analysis of Results for Medical Staffs and Administration Staffs--. Abstracts of the 26th Congress of Jpn. Soc. Rehab. Med., Sendai, 287, 1989.

Fukusako, Y.: Mini-Seminar; Rehabilitation for Disorders of Higher Cortical Function --Aphasia--. Abstracts of the 13th Congress of Jpn. Neuropsychol., Tokyo, 49, 1989.

Hayashi, A., S. Imaizumi, H. Seki, T. Harada and H. Hosoi: The Relationships between Ear's Temporal Window and Speech Perception for the Hearing Impaired. Report of the 1989 Autumn Meeting of the Acoust. Soc. Jpn., 353-354, 1989.

Hayashi, A., S. Imaizumi, H. Seki, T. Harada and H. Hosoi: Effects of Ear's Temporal Window on the Perception of VOT for

- the Hearing Impaired. Reports of the 1990 Spring Meeting of the Acoust. Soc. Jpn. 339-340, 1990.
- Hiramatsu, K., M. Fukuda, S. Niwa, T. Sasaki, O. Saitoh, F. Etoh, S. Iijima, T. Mizoguchi and K. Itoh: Psychophysiological Assessment Using ERPs on Effects of Antidementic Drugs(2nd Report). Proceedings of the 19th Conference of EEG and EMG. Okayama, 213, 1989.
- Hirose, H., S. Imaizumi, S. Niimi, S. Horiguchi and H. Yamaguchi: A Study of Relationship between Smoking and Phonatoy Function. Smoking Research Foundation Annual Research Report 1988, 382-391, 1989.
- Imagawa, H., S. Imaizumi, S. Kiritani, K. Igarashi and S. Saitoh: A Study on Perceptual Quality of Synthetic Speech of Verious Types of Voice Qualities via Glottal Source Modelling. Reports of the 1989 Autumn Meeting of the Acoust. Soc. Jpn., 271-272, 1989.
- Imagawa, H., S. Imaizumi, S. Kiritani, K. Igarashi and S. Saitoh: A Study on Voice Quality Variations among Phonation Types and Speakers Based on a Model of Glottal Source. Reports of the 1990 Spring Meeting of the Acoust. Soc. Jpn. 231-232, 1990.
- Imaizumi, S. and S. Kiritani: A Model of the Formant Trajectories Aiming at Controlling Speaking Rate. Report of the 1989 Autumn Meeting of the Acoust. Soc. Jpn., 289-290, 1989.
- Imaizumi, S. and S. Kiritani: Formant Synthesis by Rule Based on a Control Model of Speaking Rate. Reports of the 1990 Spring Meeting of the Acoust. Soc. Jpn. 185-186, 1990.
- Kobayashi, N., Y. Tohkura, S. Tenpaku and S. Niimi: Physiological and Acoustic Characteristics of Traditional Japanese Singing. Report of the 1989 Autumn Meeting of the Acooust. Soc. Jpn., 245-246, 1989.
- Murakami, Y., J. Tayama, M. Mizuno, Y. Nomura, S. Horiguchi, S. Niimi and H. Hirose: A Histochemical Study of the Intrinsic Laryngeal Muscles in Shy-Drager Syndrome. Proceedings of the 2nd Annual Meeting of the Japan Laryngological Association, 87, 1990.
- Naito, R., J. Tayama, Y. Murakami, M. Mizuno, Y. Nomura, S. Horiguchi, S. Niimi and H. Hirose: A Case of Laryngeal Anomaly. Proceedings of the 2nd Annual Meering of the Japan Laryngological Association, 130, 1990.
- Niwa, S., M. Fukuda, K. Hiramatsu, S. Hayashida, O. Saitoh, A. Iwanami, K. Nakagome and K. Itoh: MRI for Observing Correspondence of Electrode Locations by 10-20 Method and Cortical Structure. Proceedings of the 19th Conference of EEG and EMG, Okayama, 343, 1989.

Niwa, S., K. Itoh, K. Hiramatsu, M. Fukuda, O. Saitoh, A. Iwanami, T. Sasaki, K. Nakagome, S. Hayashida: Semantic Processing of Illegible Sentences and Schizophrenics. Proceedings of the 12th Conference of Jpn. Soc. Biol. Psychiatr, Otsu, 76, 1990.

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Sawashima, M.: Works on the Laryngeal Paralysis at the Time of Rosenbach-Semon and Wagner-Grossmann. Proceedings of the 2nd Annual Meeting of the Japan Laryngological Association, 47-48, 1990.

Sekimoto, S.: Identification of Frequency-Compressed Voiced Stops and Semivowels. Report of the 1989 Autumn Meeting of the Acoust. Soc. Jpn., 373-374, 1989.

Shimada, J., S. Horiguchi, S. Niimi and H. Hirose: Role of the Sternohyoid in Regulation of Pitch of Voice at the Initiation of Utterances. Proceedings of the 2nd Annual Meeting of the Japan Laryngological Association, 80, 1990.

Suzuki, T., H. Monoi, K. Endo and Y. Fukusako: Recovery Process of a Treated Patients with Pure Alexia --Case Report--. Abstracts of the 13th Congress of Jpn. Soc. Neuropsychol., Tokyo, 61, 1989.

Tayama, J., Y. Murakami, M. Mizuno, Y. Nomura, S. Horiguchi, S. Niimi and H. Hirose: Use of New Type Silicone for Intracordal Injection. Proceedings of the 2nd Annual Meeting of the Japan Laryngological Association, 69, 1990.

Watamori, T., S. Sasanuma, Y. Fukusako and H. Monoi: The Relationship between the Age of Onset and Nonverbal Perception in Ahasic Patients. Abstracts of the 26th Congress of Jpn. Soc. Rehab. Med., Sendai, 239, 1989.

B.3. Contributions in Separate Publications

B.3.i. Part of a Textbook, Handbook, Anthologies etc.

Fukusako, Y.: Aphasia. Nakai, Y., M. Toriyama, A. Kataura, and H. Saito (eds.): Today's Otorhynolaryngology and Head-Neck Surgery. Igaku-Shoin, Co., Tokyo(in press).

Hirose, H.: Voice Disorders. In ENT Clinical Course for Specialists(Eds, Nozue, M. et al.), Kanehara, Tokyo, 125-128, 1989.

Hirose, H.: Trigeminal Neuralgia, Recurrent Nerve Palsy. In Recent Trend in Medicine. Facial and Cervical Diseases(Eds. Sakai, M. and Murakami, Y.), Ishiyaku, Tokyo, 70-75, 1989.

Hirose, H.: Recurrent Nerve Palsy. In Annual Review of Respiratory System 1990, (Eds. Ohta, Y. et al.), Chugai-Igakku, Tokyo. 275-279. 1990.

Hirose, H.: Care of the Laryngectomized. Recent Trend in Therapeutics 1990, Igaku-Shoin, 803, 1990.

Kiritani, S.: Hearing and Speech Perception, Biomechanics Vol.3 Biological Information and Rehabilitation Engineering, Ohm-Sha Co. Ltd, 1990(in press).

Neural-Net Group. and S. Kiritani: Neuro-Computer(Iinuma, I., ed.): Gijutsu-Hyoron-Sha, 1989.

Sawashima, M.: Timing of the Surgery for Cleft Lip and Palate, in Jpn. Soc. for Pediatric Otorhinolaryng, ed: One Hundred Clinical Points for Pediatricians and Otolaryngologists. 112-113, Shinohara Pub. Co. 1989.

Sawashima, M.: Voice Disorders. In Y. Kasahara ed. Premier Otolaryngology, Special Parts. 276-282, Ishiyaku Pub. 1989.

Watamori, T., A. Takeuchi, Y. Fukusako, M. Itoh, T. Suzuki, K. Endo, T. Takahashi, M. Takahashi and S. Sasanuma: Communication ADL Test (CADL Test). Ishiyaku, Tokyo, 1990.

B.3.ii. Monographs

Okazaki, K., N. Ainoda, A. Ohira, M. Kato, F. Tanoguchi, T. Fukuda, M. Miura and M. Sawashima: Sample Tape of the Articulation Disorders due to Cleft Palate, Medical Res. Center, 1989.

B.4. Translations

none