

## RECENT PUBLICATIONS

April 1988 - March 1989

### A. Publications in English

#### A. 1. Publications in Periodicals

##### A. 1. i. Original Contributions

Hirose, H.: High-Speed Digital Imaging of Vocal Fold Vibration. *Acta Otolaryngol*(Stockh), Suppl. 458, 151-153, 1988.

Hisamatsu, K., T. Ganbo, Y. Yamauchi, Y. Murakami, H. Koyama, K. Makiyama, J. G. Gleich: Cytotoxicity of Human Eosinophi Granule Major Basic Protein ( MBP ) on the Human Nasal Mucosa. *Oto-Rhino-Laryngology Tokyo*, 31, Suppl. 7, 917-918, 1988.

Hisamatsu, K., T. Ganbo, J. Ogino, Y. Yamauchi, Y. Murakami, H. Koyama, K. Makiyama, J. G. Gleich: Cytotoxicity of Platelete Activating Factor ( PAF ) on the Human Nasal Mucosa. *Oto-Rhino-Laryngology Tokyo*, 31, Suppl. 7, 919-920, 1988.

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

Kuriyagawa, F., M. Sawashima, S. Niimi and H. Hirose: Electromyographic Stucy of Emphatic Consonsts in Standard Jordanian Arabic. *Folia Phoniat*. 40. 117-122, 1988.

Sudo, M. and S. Kiritani: The acquisition of durational control in English by Japanese learners. *J. Phonetics* (in press).

##### A.1.ii. Review Articles

none

##### A.1.iii. Progress Reports

Bisazza, J. A.: Thoughts on Grozinsky's Theory of Agrammatism. *Ann. Bull. RILP*, 22, 135-142, 1988.

Hirose, H., G. Ohyama and K. Konno: A Preliminary Study of Acoustic Evaluation of Dysarthric Speech. *Ann. Bull. RILP*, 22, 97-103, 1988.

Kiritani, S. and S. Imaizumi: Advanced Technique for Speech Synthesis -A Research Plan on Techniques for Synthesizing Segmental Features. *Ann. Bull. RILP*, 22, 153-164, 1988.

Niimi, S., S. Horiguchi and N. Kobayashi: The Physiological Role of the Sternothyroid Muscle in Phonation. An Electromyographic Study. Ann. Bull. RILP, 22, 165-172, 1988.

Sugito, M. and H. Hirose: Production and Perception of Accented Devoiced Vowels in Japanese. Ann. Bull. RILP, 22, 21-39, 1988.

Ueno, T. and H. Imagawa: Some Remarks on Prosody in Reading a Story in Japanese. Ann. Bull. RILP, 22, 173-181, 1988.

#### A.1.iv. Abstracts of Meeting Papers

Alfonso, P. J. and S. Horiguchi: Stable Lingual Gestures in Vowel Articulation. J. Acoust. Soc. America. 84(S1), S129, 1988.

Hisamatsu, K., K. Makiyama, T. Ganbo, T. Hayama, R. Gotoh, Y. Murakami: Mucosal Epithelial Dysfunction and Damage Induced by some Inflammatory Mediators in Vitro. Rhinology, 26, Suppl. 1, 185, 1988.

Makiyama, K., M. Takeuchi, K. Hisamatsu: Histaminase Activity in Patients with Pollinosis. Rhinology, 26, Suppl. 1, 193, 1988.

#### A.2. Contributions in Meeting Proceedings etc.

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

Imaizumi, S. and S. Kiritani: A Study of the Formant Trajectories and Voice Source Characteristics Based on the Closed Phase Analysis. Preprints of the Second Symposium on Advanced Man-Machine Interface through Spoken Language, Makaha, 6-1, 1988.

##### A.2.ii. Meeting Papers in Proceedings or Digests

Hisamatsu, K., K. Makiyama, T. Ganbo, Y. Murakami: Cytotoxic Effect of Platelet Activating Factor on the Human Nasal Mucosa in Vitro. Abstracts of the 13th I.C.A.C.I. (International Congress of Allergology and Clinical Immunology), 285, 1988.

Hisamatsu, K., K. Makiyama, T. Ganbo, Y. Murakami, G. J. Gleich: Cytotoxic Effect of Human Eosinophil Granule Major Basic Protein on the Human Nasal Mucosa in Vitro. Abstracts of the 13th I.C.A.C.I. (International Congress of Allergology and Clinical Immunology), 475, 1988.

Imaizumi, S. and S. Kiritani: Effects of Speaking Rate on Formant Trajectories and their Interspeaker Variations. J. Acoust. Soc. America, 84, S128, 1988.

Itoh, K.: A Neuro-Synaptic Model of Pitch Perception with Auditory Memory. Proceedings of World Congress on Medical Physics and Biomedical Engineering, San Antonio, BE16A-5, 1988.

Kiritani, S.: Recent Trends in Articulatory Studies in Japan. J. Acoust. Soc. America, 84, S145, 1988.

Kojima, S., Itaru F. Tatsumi, S. Kiritani and H. Hirose: Voco-Auditory Functions of the Chimpanzee. J. Acoust. Soc. America, 84, S77, 1988.

Shimura, Y., S. Imaizumi, T. Ichijima and K. Saito: Infants' Vocalization in Mother-Infant Interaction. J. Acoust. Soc. America, 84, S114, 1988.

### A.3. Contributions in Separate Publications

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

Hirose, H., S. Kiritani and H. Imagawa: High-Speed Digital Image Analysis of Laryngeal Behavior in Running Speech. Vocal Physiology: Voice Production, Mechanism and Functions, (ed. O. Fujimura), Raven Press, New York, 335-345, 1988.

Imaizumi, S. and S. Kiritani: A Preliminary Study on the Generation of Pathological Voice. Vocal Fold Physiology Vol.2, Vocal Physiology: Voice Production, Mechanisms and Functions (Ed. Fujimura, O.), Raven Press, New York, 249-257, 1988.

Koike, Y. and S. Imaizumi: Objective Evaluation of Laryngostroboscopic Findings. Vocal Fold Physiology Vol.2, Vocal Physiology: Voice Production, Mechanisms and Functions (Ed. Fujimura, O.), Raven Press, New York, 433-442, 1988.

Kiritani, S., H. Imagawa, and H. Hirose: High-Speed Digital Image Recording for the Observation of Vocal Cord Vibration. Vocal Fold Physiology Vol.2, Vocal Physiology: Voice Production, Mechanisms and Functions (Ed. Fujimura, O.), Raven Press, New York, 261-269, 1988.

Niimi, S., S. Horiguchi, N. Kobayashi, and M. Yamada: Electromyographic Study of Vibrato and Tremolo in Singing. Vocal Fold Physiology Vol.2, Vocal Physiology: Voice Production, Mechanisms and Functions (Ed. Fujimura, O.), Raven Press, New York, 403-414, 1988.

#### A.3.ii. Monographs

none

#### A.4. Translation

none

#### B. Publications in Japanese

##### B.1. Publications in Periodicals

##### B.1.1 Original Contributions

Akutsu, T., M. Furukawa, K. Oishi, S. Sawaki, Y. Yotsukura and H. Yamaguchi: A case of unilateral recurrent laryngeal nerve paralysis treated with the arytenoid rotation operation and voice training. *Otologia (Fukuoka)*, 34, 300-305, 1988.

Baba, S., K. Makiyama, K. Hisamatsu, et al: Clinical Evaluation of Terfenadine in Allergic Rhinitis. *Oto-Rhino-Laryngology Tokyo*, 31, Suppl.2, 119-131, 1988.

Baba, S., K. Makiyama, K. Hisamatsu, et al: Controlled Study Comparing Terfenadine and Ketotifen in Allergic Rhinitis. *Oto-Rhino-Laryngology Tokyo*, 31, 2, 198-224, 1988.

Fukuda, M., S. Nagakubo, K. Nakagome, O. Saitoh, K. Hiramatsu, S. Niwa, S. Hayashida, T. Kameyama and K. Itoh: Possible Influential Effects of Verbal Instructions on P300s During Three-Tone Discrimination Tasks in Schizophrenics. *Psychiat. Med.*, 30, 877-883, 1988.

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 -- (2) The Analysis of Results for Medical Staffs and Administration Staffs -- . *Sogo Rehabilitation*. (in press)

Hayashi, Y., T. Ohoshige, M. Onuma, H. Aoki, T. Fujimoto and Y. Fukusako: A Survey of Awareness and Attitude toward Medical Geriatric Hospital -- (1) The Analysis of Results for Doctors and Nurses -- . *Sogo Rehabilitation*. (in press)

Hisamatsu, K., T. Ganbo, Y. Murakami, K. Makiyama, H. Koyama: Mucosal Epithelial Dysfunction and Damage Induced by Some Inflammatory Chemical Mediators in Vitro: A Hypothesis on Non-specific Mucosal Hyperresponsiveness Mechanism in Nasal Allergy. *J. of Jap. Soc. of Immunol. & Allerg. in Otolaryngology*, 6, 55-64, 1988.

Kawabata, I and S. Horiguchi: Head-Light TV Camera-Design and Clinical use. *The Journal of the Japan Medical Association*, 100, 2, SS-1-4, 1988.

Kawabata, I, S. Horiguchi and R. Kondou: Head-Light TV Camera-Its

- Clinical Application. Pract. Otol. Kyoto. 81, 1256-1257, 1988.
- Kawai, M., M. Iwata, T. Mannen, H. Hirose and K. Yoshikawa: Localization of the corticobulbar tract in pos. Clin. Neurl., 28, 897-901, 1988.
- Kida, A., M. Aoyagi, T. Furusaka, K. Makiyama, H. Iida, S. Endou: Malignant Melanomas of the Nasal Cavity. Otologia ( Fukuoka ), 34, 517-522, 1988.
- Makiyama, K., A. Kida, M. Aoyagi, O. Takayama, K. Kikuchi, H. Tomita: Piriform Sinus Fistula-A Route of Infection in Acute Cervical Abscess. J. Jpn. Bronchoesophagol. Soc., 39, 267-270, 1988.
- Makiyama, K: A Case Report of Reduction of Non-specific Hypersensitivity by Tranilast. The Allergy in Practice, 103, 122-124, 1989.
- Nagao, Y., H. Ohsawa, S. Niimi, H. Hirose and M. Mizuno: Swallowing and Head and Neck Diseases. Otologia Fukuoka, 34, 552-557, 1988.
- Nagao, Y., M. Mizuno, T. Murofushi, M. Yokokohji, S. Niimi, H. Hirose, and K. Furukawa: Observation of Dysphagia Using VTR System. Otologia Fukuoka, 34, 105-107, 1988.
- Okuda, M., K. Makiyama, K. Hisamatsu, et al: Controlled Study Comparing AA-673 Nasal Solution and Tranilast in Allergic Rhinitis. Oto-Rhino- Laryngology Tokyo, 31, Suppl. 3, 281-307, 1988.
- Okuda, M., K. Makiyama, H. Yamazuchi, et al: Plophylactic Efficncy of Azelastine on Japanese Cedar Pollinosis. Oto-Rhino-Laryngology Tokyo, 32, Suppl. 1, 37-53, 1989.
- Tsunoda, K., S. Niimi, H. Hirose, M. Sawashima and T. Ushijima: Prognosis of Hoarseness in Children. J. Otolaryngol. Jpn., 91, 1892-1897, 1988.
- Yamada, A., M. Arai and T. Deguchi: Identification of Voiced Stop Consonants by the Hearing Imaparied Children. Communication Disorder Reserch, 17, 13-17, 1988.
- Yamaguchi, H.: Vocal rehabilitation for vocal cord nodules. Communication Disorder Research, 17, 61-66, 1988.
- Yamaguchi, H., Y. Yotsukura, K. Watanabe, H. Hirose, K. Tsunoda and K. Ohishi: Vocal Hygiene after Polypectomy. Jpn. J. Logop. Phoniatr., 29, 232-238, 1988.
- Yamaguchi, H., Y. Yotsukura, H. Hirose, M. Furukawa, T. Akutsu and K. Oishi: A case of Werner's syndrome with hoarseness. Otologia (Fukuoka), 34, 271-275, 1988.

Yotsukura, Y., K. Oishi, S. Sawaki and H. Yamaguchi: Vocal hygiene for vocal cord nodules in hospitalization. *Otologia* (Fukuoka), 334, 295-299, 1988.

Watamori, T. S., A. Takeuchi, Y. Fukusako, T. Miyamori, T. Suzuki, K. Endo, M. Itoh and S. Sasanuma: Functional Communication in Dementia Patients. *Jpn. J. of Rehabilitation Medicine*, 26, 26-33, 1989.

#### B.1.ii Review Articles

Fujisaki, H., S. Kiritani and others: Report on the Second Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan. -November 14-18, 1988. Honolulu- *J. Acoust. Soc. Jpn.*, 45, 150-155, 1989.

Fukuda, M., O. Saitoh, K. Hiramatsu, S. Niwa, S. Hayashida, T. Kameyama and K. Itoh: Neurophysiological Tests 3. Event-Related Potentials. *Clin. Psychiat. Med.*, 17, 925-934, 1988.

Hirose, H.: Disorders of Articulation -with Special Reference to Dysarthria-. *Higher Brain Function Res.*, 18, 18-21, 1988.

Hirose, H.: Laimer's Triangle and Killian's Triangle. *JOHNS* 4, 1134-1136, 1988.

Hirose, H.: "Tafel Anatomia" and the Intrinsic Laryngeal Muscles. *JOHNS* 4, 626-628, 1988.

Hirose, H.: Voice and Speech Disorders in Preventive Medicine. *JOHNS* 4, 1101-1105, 1988.

Hirose, H.: Recent Topics in Logopedics and Phoniatics in the United States. *Otolaryngology-Head and Neck Surgery*, 60, 527-528, 1988.

Hirose, H. and T. Ushijima: Myasthenia Gravis and Otolaryngology. *Otolaryngology-Mook*, 9, 54-64, 1988.

Hirose, H.: Clinical Practice for Voice and Speech Disorders. *Hyogo District Bulletin, Jpn. Soc. Oto-rhino-Laryng.*, 38, 22, 1988.

Kiritani, S.: Acoustic pattern of the speech sounds and prosody. *Nihongogaku*, 8, No. 3, 47-71, 1989.

Makiyama, K: Health Care of the Patients in Pollinosis. *Ichiyaku-tsuusin* (Tokyo), 15-18, 1988.

Makiyama, K: Habitual Epistaxis of the Children with Allergic Rhinitis. *The Allergy in Practice*, 92, 377-378, 1988.

Makiyama, K., N. Yamada: Care for the Patient of Deafness. *J. Otolaryngol. Jpn. Head and Neck Surgery*, 14, 1685-1687,

1988.

Makiyama, K: Pathophygiology of Infective Rhinitis. The Allergy in Practice, 104, 168-171, 1989.

Sawashima, M: Mutation of Voice. Jpn. J. Logop. Phoniatr. 29, 299-300, 1988.

Watanabe, Y.: Voice disorders and its rehabilitation--voice therapy. Japanese Speech Therapist Association News, 19, 19-21, 1988.

#### B.1.iii Progress Reports

none

#### B.1.iv Abstracts of Meeting Papers

Fukuda, M., S. Nagakubo, O. Saitoh, K. Hiramatsu, S. Niwa, S. Hayashida, K. Itoh, T. kameyama and K. Nakagome: Effects of Strategy Instruction on Frequent P300 in Schizophrenic Patients. 2. Nonverbal Instruction. Jpn. J. EEG and EMG. 16, 158, 1988.

Furukawa, K., M. Nakahara, T. Ishii, I. Kaneko, K. Harada, S. Furusawa, H. Takahashi, T. Shitara and S. Niimi: Aging Effects on the Movement of the Hyoid Bone during Deglutition. J. Jpn. Bronchoesophagol. Soc., 39, 219, 1988.

Harada, H., K. Hirayama, A. Fujino, K. Furukawa, H. Takahashi, T. Shitara, and S. Niimi: A Clinical Study of Crico-Pharyngeal Myotomy. J. Jpn. Bronchoesophagol. Soc., 39, 218, 1988.

Hirose, H.: Observation of Vocal Fold Vibration Using High-Speed Digital Imaging System. J. Jpn. Brochoesophagol. Soc., 39, 176, 1988.

Hirose, H. and S. Kiritani: A Clinical Application of High-Speed Digital Imaging System for the Analysis of Vocal Fold Vibration. J. Otolaryngol. Jpn. 91, 1778-1779, 1988.

Hisamatsu, K., K. Makiyama, T. Ganbo, T. Souma, R. Gotou, Y. Murakami: A Study on Injurious Action of Some Mediators of Allergy and inflammation (First Report). Proceeding of the 27th Meeting of Japan Rhinologic Society. 234, 1988.

Horiguchi, S., S. Niimi, K. Tsunoda and N. Kobayashi: An EMG Study of Laryngeal Adjustment during Flute Playing. J. Otolaryngol. Jpn. 91, 1710, 1988.

Horiguchi, S and K. Oshima: A Case Report of Sleep Apnea Syndorome. J. Otolaryngol. Jpn. 91, 1947, 1988.

- Horiguchi, S and I. Kawabata: Head-Light TV Camera. Pract. Otol. Kyoto. S28, 69, 1988.
- Horiguchi, S and I. Kawabata: Head-Light TV Camera-Clinical Application for Nasal Surgery. Proceedings of the 27th Meeting of Japan Rhinologic Society. 195, 1988.
- Horiguchi, S and I. Kawabata: Report of Cases of Acute Hearing Loss After Exposure to Rock-Music. Clin. Otol. Jpn. 15, 3, 1988.
- Horiguchi, S., and S. Niimi: A Clinical Use of the Velotrace. Jpn. J. Logop. Phoniatr., 30, 18-19, 1989.
- Imaizumi, S., A. Terawa, S. Kiritani and H. Hirose: Distortions in Speech of Broca's Aphasics with Apraxia of Speech - An Acoustic Study -. Jpn. J. Logop. Phoniatr., 30, 96-97, 1989.
- kameyama, T., M. Fukuda, K. Nakagome, O. Saitoh, K. Hiramatsu, S. Niwa and K. Itoh: On Contralateral Negativity. Jpn. J. EEG and EMG. 16, 158, 1988.
- Kiritani, S. and H. Hirose: High-Speed Digital Image Recording of Pathological Vocal Cord Vibrations. J. Jpn. Bronchoesophagol. Soc., 39, 189, 1988.
- Kiritani, S., H. Hirose and H. Imagawa: Pattern of Vocal Fold Vibrations and Variations in Speech Signal in Rough Voices - Observation by High-Speed Digital Image Recording. Jpn. J. Logop. Phoniatr., 30, 66-67, 1989.
- Kiritani, S. and H. Hirose: Vocal Fold Vibration and Acoustic Characteristics of Pathological Voices - A Study by High-Speed Digital Image Recording. J. Otolaryngol. Jpn. 91, 1707, 1988.
- Kobayashi, N., S. Niimi and K. Tsunoda: Observation of Relationship between Respiratory Movement and Oral Air Flow during Esophageal Speech. Jpn. J. Logop. Phoniatr., 30, 85, 1989.
- Kondou, R., S. Horiguchi and S. Iwamura: Therapy for Spasmodic Dysphonia. J. Otolaryngol. Jpn. 91, 1947, 1988.
- Kumakawa, K., H. Yamaguchi and H. Hirose: A Study of Configuration of Paralyzed Vocal Cord on X-ray Analysis with Reference to Aerodynamic Effect. J. Jpn. Bronchoesophagol. Soc., 39, 234, 1988.
- Makiyama, K. A. Kida, M. Aoyagi, T. Oonari, E. Ishiyama, O. Takayama: Clinical Study of Pyliform Sinus Branchiogenic Fistula. J. Jpn. Bronchoesophagol Soc., 39, 227, 1988.
- Makiyama, K., K. Okazaki, M. Takeuchi, K. Hisamatsu, T. Ganbo: A



- Study of Nasal Secretion Stimulated by Acethylcoline. Jpn. J. Allergol., 37, 841, 1988.
- Makiyama, K.: Clinical Study of Japanese Cedar Pollinosis. The Allergy in Practice, 97, 729, 1988.
- Makiyama, K., M. Sawashima, S. Niimi, S. Horiguchi, K. Tsunoda: Use of Expiratory Air in Singing Voice. J. Otolaryngol. Jpn. 91, 1709-1710, 1988.
- Makiyama, K., K. Okazaki, M. Takeuchi, K. Kikuchi, K. Hisamatsu, T. Ganbo: Non-specific Hypersensitivity in Japanese Cedar Pollinosis. Proceeding of the 27th Meeting of Japan Rhinologic Society, 173, 1988.
- Makiyama, K., M. Sawashima, S. Niimi, S. Horiguchi and K. Tsunoda: Aerodynamic Study of Singing Voice. Jpn. J. Logop. Phoniatr. 30, 68-69, 1989.
- Mashiko, Y., S. Kiritani, H. Imagawa and T. Ueno: Japanese Accent Training System Based on a Real-Time Pitch Extraction System. J. Jpn. Language Teaching, 67, 218-219, 1989.
- Murakami, Y., N. Takeuchi, M. Mizuno, Y. Nomura, S. Niimi, H. Hirose and K. Ichimura: A Clinical Evaluation of Surgical Treatments for Misdeglutition. J. Jpn. Bronchoesophgol. Soc., 39, 218, 1988.
- Niimi, S.: Phonatory Function after Pharyngo-Laryngectomy. J. Jpn. Bronchoesophgol. Soc., 39, 182, 1988.
- Niimi, S., S. Horiguchi and S. Kiritani: Non-Invasive Measuring Method of Palatal Configuration. Jpn. J. Logop. Phoniatr., 30, 24-25, 1989.
- Niimi, S., S. Horiguchi, K. Tsunoda, S. Kiritani and H. Hirose: Multidimensinal Processing System for Physiological Data of Speech Production. J. Otolaryngol. Jpn. 91, 1778, 1988.
- Ohyama, G., H. Hirose, Y. Watanabe and K. Fujiwara: A Quantitative Evaluation of Dysarthric Speech. Jpn. J. Logop. Phoniatr., 30, 91-92, 1989.
- Okazaki, K., K. Makiyama, M. Takeuchi, K. Kikuchi: A Study of Histaminase Activity in Japanese Cedar Pollinosis. The Journal of Japan Rhinologic Society, 27, 237, 1988.
- Saita, H., H. Zusho, S. Imaizumi, M. Matsui, T. Yauchihara and M. Okamoto: Relationship between Voice and Physical Developments during Mutation. Jpn. J. Logop. Phoniatr., 30, 116, 1989.
- Seki, H., A. Okamoto, Y. Hara and S. Niimi: A Preliminary Study on Acoustic Factors Affecting Unnaturalness Esophageal Speech. Jpn. J. Logop. Phoniatr., 30, 84-85, 1989.

- Shimura, Y., I. Yamanouchi, S. Imaizumi, T. Ichijima, H. Fukuhara and K. Saito: A Study on Mother - Infant Interactions Based on the Acceleration Measurement of Infant's Movements. Jpn. J. Logop. Phoniatr., 30, 42-43, 1989.
- Sudo, M and S. Kiritani: Acquisition of Timing Control in English by Japanese Learners. J. Linguistic Society of Japan, 95, 275, 1989.
- Takeuchi, M., K. Makiyama, K. Okazaki, K. Kikuchi, K. Hisamatsu, T. Ganbo: A Measuring Method of Nasal Secretions Provoked by Acetylcholine. Proceeding of the 27th Meeting of Japan Rhinologic Society. 172, 1988.
- Takeuchi, N., Y. Murakami, M. Mizuno, Y. Nomura, S. Niimi and H. Hirose: A Small Modification on the Technique of the Arytenoid Rotation. J. Jpn. Bronchoesophagol. Soc., 39, 235, 1988.
- Ushijima, T., K. Bono, Y. Kase, S. Niimi and H. Hirose: Intracordal Silicone Injection for Bilateral Recurrent Nerve Palsy - A Case Report. Jpn. J. Logop. Phoniatr., 1988.
- Yamada, A., S. Imaizumi, T. Harada, H. Hosoi and H. Seki: Effects of Temporal Window on the Vowel Perception of the Sensorineural Hearing-Impaired ---A Preliminary Study---. Audiology Jpn., 31, 613-614, 1988.
- Yamaguchi, H., T. Yotsukura, K. Sata, H. Hirose, S. Imaizumi and K. Tsunoda: A Study of Postoperative Course of Vocal Cord Polyp. J. Jpn. Bronchoesophagol. Soc., 39, 189, 1988.
- Yamaguchi, H., H. Sata, Y. Yotsukura, Y. Watanabe, H. Hirose, S. Imaizumi and N. Kobayashi: Pushing Exercise for Clinical Cases with Incomplete Glottal Closure. J. Otolaryngol. Jpn. 91, 1715, 1988.
- Watanabe, Y., H. Yamaguchi, T. Yotsukura and H. Hirose: Postoperative Vocal Hygiene for Clinical Cases with Vocal Cord Polyp. J. Otolaryngol. Jpn. 91, 1766, 1988.

## B.2. Contributions in Meeting Proceedings etc.

### B.2.1 Printed Texts of Symposium Papers etc.

- Fujisaki, H., S. Kiritani, H. Sato and K. Shirai: Report on the Second Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan. IEICE Technical Report, SP88-133, 1989.
- Fukawa, H., S. Imaizumi, S. Kiritani and S. Saito: A Model of Glottal Source for the Synthesis of Various Types of Voice

- Qualities. IEICE Technical Report, SP88-151, 1989.
- Hirose, H: Production of Chinese Four Tones by an Esophageal Speaker. IEICE Technical Report, SP88-93, 1988.
- Imaizumi, S and S. Kiritani: A Study of Voice Source Characteristics for Speech Synthesis. Grant-in-Aid for Scientific Research on Priority Areas "Advanced Man-Machine Interface Through Spoken Language " Research Report No. PASL 63-5-1, July 9, 1988.
- Imaizumi, S and S. Kiritani: Toward a Model of Format Trajectories and Voice Source Characteristics Through Spoken Language. Grant-in-Aid for Scientific Research on Priority Area "Advanced Man-Machine Interface Through Spoken Language " Research Report No. PASL 63-5-3, October 23, 1988.
- Itoh, K.: Language processes and the EEGs. Report of Committee on Biological Time Series Signals and Fluctuations, Jpn. Soc. ME. 2, 29-30, 1988.
- Itoh, K., S. Niwa, K. Hiramatsu, O. Saitoh, T. Kameyama and M. Fukuda: Spectral Analysis of EEGs. Report of Committee on Biological Time Series Signals and Fluctuations, Jpn. Soc. ME. 2, 53-54, 1989.
- Kiritani, S.: Spoken Language and Literal Language from the Viewpoint of Variability. Preprints of the Symposium on Spoken Language Processing and Literal Language Processing (Priority Area "Advanced Man-Machine Interface through Spoken Language" and Special Research Project "Basic Research for the Advancement of Language Processing". Ministry of Education), 3.1.1-11, 1988.
- Kiritani, S., K. Ito, S. Niwa, R. Mazuka and K. Naito: Measurements and Analysis on Human Processing of Illegible Sentences. Special Research Project of "Basic Research for the Advancement of Language Processing", Ministry of Education, the Fujisaki Group Report, 6, 29-46, 1989.
- Kiritani, S., H. Suzuki, H. Imagawa and M. Sudo: English Intonation Training System Using a Real Time Pitch Extractor. Abstracts of the Second Meeting of the Kanto Section of Language Laboratory Association, 18-19, 1988.
- Kiritani, S., K. Ito, S. Niwa, R. Mazuka and K. Naito: Modelling on Human Processing of Illegible Sentences. Annual Research Report of the Special Research Project "Basic Research for the Advancement of Language Processing", Ministry of Education, 295-302, 1989.
- Ohyama, G., H. Hirose, Y. Watanabe and K. Fujiwara: A Preliminary Study of the Quantitative Evaluation of Dysarthric Speech. IEICE Technical Report, SP88-92, 1988.

Shimada, J., S. Horiguchi, S. Niimi, and H. Hirose: Laryngeal Muscle Activity Related to Tone Patterns of Tokyo Japanese. IEICE Technical Report Speech, SP88-163, 1989.

Sudo, M. and S. Kiritani: Production and Perception of the Rhythmic Pattern of English by Japanese Learners. IEICE Technical Report SP88-154, 1989.

Terawa, A., S. Imaizumi, S. Kiritani and H. Hirose: An Acoustic Study on the Speech Production Mechanisms of Broca's Aphasics. IEICE Technical Report, SP88-2, 1988.

Yamada, A., S. Imaizumi, T. Harada and H. Hosoi: Effects of Temporal Factors on the Vowel Perception of the Hearing-Impaired. IEICE Technical Report, SP88-38, 1988.

#### B.2.ii Meeting Papers in Proceedings or Digests

Deguchi, T., A. Yamada and S. Kiritani: The Perception of [r] and [l] by Japanese Speakers. Proceedings of the 52nd Annual Convention of the Jpn. Psychol. Assoc. 530, 1988.

Fukawa, H., S. Saito, S. Imaizumi and S. Kiritani: A Study on Perceptual Quality of Synthetic Speech via Glottal Source Modeling. Reports of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 179-180, 1989.

Hayashida, S., J. Yamaoka, T. Kameyama, S. Niwa, K. Hiramatsu, O. Saitoh, M. Fukuda and K. Itoh: Standardization of Normal Nd, P300 Values for Clinical Use of Event-Related Potentials. Proceedings of the 18th Conference of EEG and EMG, Aomori. 226, 1988.

Hiramatsu, K., T. Sasaki, M. Fukuda, O. Saitoh, S. Niwa, F. Etoh, S. Iijima, T. Mizoguchi and K. Itoh: Psychophysiological Assessment Using ERPs on Effects of Antidementic Drugs. Proceedings of the 18th Conference of EEG and EMG, Aomori. 236, 1988.

Imagawa, H., S. Kiritani and Y. Mashiko: Japanese Accent Training System by Real-Time Pitch Extraction Using a DSP. Autumn National Convention Record of IEICE, A-1-21, 1988.

Imagawa, H., S. Kiritani and H. Hirose: Fiberoptic Observations of the Patterns of Vocal Fold Vibration during the Production of Word-Initial and Medical Consonants Using a High-Speed Digital Image Recording System. Reports of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 125-126, 1989.

Imaizumi, S., A. Yamada, T. Harada and H. Hosoi: Temporal Factors Affecting Vowel Perception in the Sensorineural Hearing Impaired. Autumn National Convention Record of IEICE, A-1. 111-112, 1988.

- Imaizumi, S. and S. Kiritani: Modeling of Formant Transition Based on a Short-Term Closed-Phase Analysis. Reports of the 1988 Autumn Meeting of the Acoust. Soc. Jpn., 121-122, 1988.
- Imaizumi, S., S. Kiritani, M. Takahashi and K. Shirai: Effects of the Variations in Formant Trajectories due to Speaking Rate upon Perceptual Quality of Synthetic Speech. Reports of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 183-184, 1989.
- Kiritani, S., I. Fujita, S. Shibata, H. Imagawa, S. Saito and H. Hirose: A Personal-Computer System for Word Learning for the Aphasic Patients. Abstracts of the 12th Meeting of the Japanese Aphasiology Society, 18, 1988.
- Saitoh, O., S. Niwa, K. Hiramatsu, M. Fukuda, K. Itoh and T. Kameyama: Context Effects and Event-Related Potentials in Normals and Schizophrenic Patients. Proceedings of the 18th Conference of EEG and EMG, Aomori, 227, 1988.
- Sawashima, M: Function of the Larynx in Speech Production. Abstract of the 12th Annual Meeting of Japanese Society of Aphasiology, 1, 1988.
- Seki, H., T. Deguchi, S. Niimi and G. Ohyama: A Study on Improving Intelligibility of Esophageal Speech. Reports of the 1988 Autumn Meeting of the Acoust. Soc. Jpn., 117-118, 1988.
- Sekimoto, S.: Perception of frequency compressed voiceless consonants. Reports of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 319-320, 1989.
- Shimada, J., S. Horiguchi, S. Niimi and H. Hirose: Sternohyoid Activity Related to Tone Patterns of Tokyo Japanese. Report of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 289-290, 1989.
- Sudo, M. and S. Kiritani: Perception of Interstress Intervals by American and Japanese Learners of English. Reports of the 1989 Spring Meeting of the Acoust. Soc. Jpn., 331-332, 1989.
- Yamada, A and S. Imaizumi: Relation between the Vowel Perception and the Ability of Temporal Processing for Hearing-Impaired. Proceedings of the 26th Annual Convention of Jpn. Assoc. of Special Education, 94-95, 1988.
- Yamada, A., S. Imaizumi, T. Harada, H. Hosoi and H. Seki: Effects of the Ear's Temporal Window upon the Vowel Perception. Reports of the 1988 Autumn Meeting of the Acoust. Soc. Jpn., 385-386, 1988.
- B.3. Contributions in Separate Publications
- B.3.i Part of a Textbook, Handbook, Anthologies etc.
- Hirose, H.: "Tongue tie", "Phonatory Function Test", "Treatment

of Mutational Voice Disorder". In Q & A in Otolaryngology, Vol.2, T. Shitara and T. Iinuma (Eds.), Kanehara, Tokyo, 1988.

Hirose, H: Phonatory Function Test, Anticulation Disorders. Industrial Otolaryngology (Eds. M. Okamoto et al.), Ishiyaku Publ. Co., Tokyo, 1989.

Itoh, K.: Mental Support Technology. Yamagata University Industrial Institute (ed) Life Support Technology. Yamagata University Industrial Institute: Yonezawa, 34-39, 1988.

#### B.3.ii Monographs

none

#### 4. Translations

none