

RECENT PUBLICATIONS

April 1985 - March 1986

A. Publications in English

A.1. Publications in Periodicals

A.1.i. Original Contributions

Itoh, K.: A Neuro-Synaptic Model of the Auditory Masking and Unmasking Process. *Biological Cybernetics*, 52, 229-235, 1985.

Masaki, S., K. Shirai, H. Imagawa and S. Kiritani: Fundamental Characteristics of Jaw Movements for Vowel Sequence Words based on Dynamic Model. *J. Acoust. Soc. Jpn. (E)*, 7, 139-148, 1986.

A.1.ii. Review Articles

none

A.1.iii. Progress Reports

Alfanzo J. P., B. C. Watson, T. Baer, M. Sawashima, H. Hirose, S. Kiritani, S. Niimi, K. Itoh, S. Sekimoto, K. Honda and H. Imagawa: The Organization of Supralaryngeal Articulation in Stutterers' Fluent Speech Production: A Preliminary Report. *Ann. Bull. RILP*, 19, 191-200, 1985.

Hiramatsu, K., M. Akimoto, M. Fukuda, O. Saitoh, T. Kameyama, S. Niwa, K. Yamazaki and K. Itoh: Decoupling of Stimulus and Responsible for Slow Reaction Times in Schizophrenics with Mild Symptomatology. *Ann. Bull. RILP*, 19, 275-282, 1985.

Hirose, H., S. Niimi, K. Honda and M. Sawashima: The Relationship between Glottal Opening and the Transglottal Pressure Difference during Consonant Production. *Ann. Bull. RILP*, 19, 55-64, 1985.

Hirose, H. and S. Kiritani: A Kinesiological Study of Labial Articulatory Movements in Ataxic Patients. *Ann. Bull. RILP*, 19, 201-207, 1985.

Honda, K., S. Kiritani, H. Imagawa, H. Hirose and K. Hashimoto: High-Speed Digital Recording of Vocal Fold Vibration Using a Solid-State Image Sensor. *Ann. Bull. RILP*, 19, 47-53, 1985.

Imagawa, H., S. Kiritani, S. Masaki and K. Shirai: Contextual Variation in the Jaw Position for the Vowels in /CVC/ Utterances. *Ann. Bull. RILP*, 19, 7-19, 1985.

- Imaizumi, S.: Acoustic Measures of Pathological Voice Qualities --Roughness--. Ann. Bull. RILP, 19, 179-190, 1985.
- Itoh, K.: A Neuro-Synaptic Model of EEG Rhythm Formation in the Thalamo-Cortical System. Ann. Bull. RILP, 19, 209-225, 1985.
- Kameyama, T., S. Niwa, K. Hiramatsu, O. Saitoh, M. Fukuda and K. Itoh: Event-Related Potential Correlates of Psychotropic Drug Action on Attentional and Cognitive Impairments in Schizophrenia. Ann. Bull. RILP, 19, 261-274, 1985.
- Konno, K., M. Sugishita and H. Hirose: Durational Effects on Evaluation of Prosodic Abnormality. Ann. Bull. RILP, 19, 249-260, 1985.
- Kuriyagawa, F. and M. Sawashima: Vowel Duration in Japanese /hū̄ku/ and /hukū̄/ (II). Ann. Bull. RILP, 19, 139-155, 1985.
- Kuriyagawa, F.: Formant Features of Hebrew Vowels. Ann. Bull. RILP, 19, 157-166, 1985.
- Masaki, S., K. Shirai, H. Imagawa and S. Kiritani: Difference in Jaw Openings for Vowels Due to Speaking Rate and Word-Internal Position in the Production of Vowel Sequence Words. Ann. Bull. RILP, 19, 29-46, 1985.
- Masuko, Y. and S. Kiritani: An Observation on Synthetic Japanese Speech Sound in Units of Fixed Duration. Ann. Bull. RILP, 19, 133-138, 1985.
- Niimi, S., S. Kiritani and H. Hirose: Ultrasonic Observation of the Tongue with Reference to Palatal Configuration. Ann. Bull. RILP, 19, 21-27, 1985.
- Sawashima, M. and S. Kiritani: Electro-Palatographic Patterns of Japanese /d/ and /r/ in Intervocalic Position. Ann. Bull. RILP, 19, 1-6, 1985.
- Sekimoto, S.: The Role of Context in Frequency Normalization in Vowel Identification. Ann. Bull. RILP, 19, 65-74, 1985.
- Sekimoto, S.: Phoneme Boundary Shift in the Identification of Frequency Expanded Vowels. Ann. Bull. RILP, 19, 75-83, 1985.
- Sugito, M., S. Kiritani and M. Sawashima: Articulatory Characteristics of the Japanese Consonants /z/ and /d/ Uttered by Dialect Speakers. Ann. Bull. RILP, 19, 167-178, 1985.

A.1.iv. Abstracts of Meeting Papers

Hiramatsu, K., T. Kameyama, O. Saitoh, M. Akimoto, K. Yamazaki, S. Niwa and K. Itoh: Slow RTs Due to Decoupling of Cognitive Process and Behavior Process in Schizophrenics. EEG Clin. Neurophysiol., 61, 79, 1985.

A.2. Contributions in Meeting Proceedings etc.

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

Imaizumi, S.: Acoustic Measures of Pathological Voice Qualities --Roughness--. Paper Submitted for the Symposium on "Voice Acoustics and Dysphonia", Gotland, Sweden, 1-10, 1985.

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

Itoh, K.: Simulated EEG Rhythmic Activities in a Neuro-Synaptic Model of Thalamo-Cortical System. Proceeding of the XIV ICMBE/VII ICMP, 887-888, 1985.

Sawashima, M., K. Honda, H. Hirose and S. Niimi: Measurement of Expiratory Air Pressure by Use of the Airway Interruption Method. Abstracts of the 13th World Congress of Otorhinolaryngology, 290, 1985.

A.3. Contributions in Separate Publications

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

Hirose, H., S. Niimi and M. Sawashima: Laryngeal Dynamics in Dysarthric Speech. New Dimensions in Otorhinolaryngology-Head and Neck Surgery, 2 (Ed. E. Myers), Elsevier Science Publishers B.V., Amsterdam, 411-412, 1985.

Kakita, Y., O. Fujimura and K. Honda: Computation of Mapping from Muscular Contraction Patterns to Formant Patterns in Vowel Space, in Phonetic Linguistics: Essays in Honor of Peter Ladefoged (Ed. Fromkin, V. A.), Academic Press, Inc., London, 133-144, 1985.

Kameyama, T., O. Saitoh, K. Hiramatsu, S. Niwa, K. Rymar and K. Itoh: Event-Related Potentials and Cognitive Deficits in Schizophrenia. Psychiatry, 2 (Eds. Pichot, P., P. Berner, H. Wolf and K. Thau), Plenum Pub., New York, 321-326, 1985.

Kiritani, S. and M. Sawashima: The Temporal Relationship between Articulations of Consonants and Adjacent Vowels. Ilse Lehiste Festschrift, Foris Publications, Amsterdam. (in press)

Niimi, S., S. Kiritani, H. Hirose and Z. Simada: Analysis of

Tongue Dynamics Using the Ultrasonic Method. New Dimensions in Otorhinolaryngology-Head and Neck Surgery, 2 (Ed. E. Myers), Elsevier Science Publishers B.V., Amsterdam, 1095-1096, 1985.

A.3.ii. Monographs

none

A.4. Translations

none

B. Publications in Japanese

B.1. Publications in Periodicals

B.1.i. Original Contributions

Hiramatsu, K., M. Akimoto, S. Niwa, T. Kameyama, O. Saitoh, M. Fukuda, K. Yamazaki and K. Itoh: P300 Latencies Correlate to the Choice Reaction Times in Normals. Clin. Electroenceph., 27, 237-245, 1985.

Ito, O., H. Tanaka, S. Niimi and H. Hirose: A Case of Oculopharyngeal Muscular Dystrophy. J. Jpn. Bronchoesophagol. Soc., 36, 389-395, 1985.

Kawamura, M., K. Hirayama and H. Hirose: Ataxic Dysarthria in Patients with Right Broca's Area Lesion. Higher Brain Function Res., 5, 822-826, 1985.

Kuriyagawa, F.: On the Duration of Vowels and the Vowel Signs in Modern Hebrew. Journal of the Linguistic Society of Japan, 89, 21-41, 1986.

Sekimoto, S. and S. Saito: Intelligibility of Frequency Compressed Speech for a Hearing Aid. J. Acoust. Soc. Jpn., 41, 841-849, 1985.

Yotsukura, Y., K. Oishi, S. Sawaki, H. Yamaguchi and H. Hirose: Voice Therapy for the Patient with Vocal Nodules. Jpn. J. Logop. Phoniatr., 26, 279-288, 1985.

B.1.ii. Review Articles

Hirose, H.: Clinical Examinations of Voice and Speech Disorders. Tojibi Kaiho, 60, 11-16, 1985.

Hirose, H.: A Possibility of Analysis-Synthesis Type Hearing Aid. *Better Hearing J.*, 85, 3, 1985.

Hirose, H.: Diagnosis and Therapy of Speech Disorders. *J. Jpn. Med. Assoc.*, 93, 917-921, 1985.

Hirose, H.: Recurrent Nerve Paralysis. *J. Jpn. Bronchoesophagol. Soc.* 36, 415-423, 1985.

Hirose, H.: Mechanism of Phonation and Articulation. *Brain Nursing*, 2, 133-138, 1986.

Hirose, H.: Examination of Vocal Functions. *ENT Specialist*, 7, 8-9, 1986.

Niimi, S.: Observation and Recording of the Larynx. *Otologia Fukuoka*, 31, 857-859, 1985.

Ushijima, T. and H. Hirose: Determinant Factors for Articulatory Functions in Postglossectomy Condition --A Contribution to the Special Issue on the Articulatory Function in the Glossectomized. *Jpn. J. Logop. Phoniatr.*, 26, 209-214, 1985.

B.1.iii. Progress Reports

none

B.1.iv. Abstracts of Meeting Papers

Furukawa, K., T. Ishii, M. Nakahara, H. Takahashi, T. Shitara, S. Furusawa and S. Niimi: Radiographic Analysis of Deglutition. *J. Jpn. Bronchoesophagol. Soc.*, 36, 210, 1985.

Hiramatsu, K., T. Kameyama, O. Saitoh, M. Akimoto, K. Yamazaki, S. Niwa and K. Itoh: Schizophrenic Slow RTs and P300 Latencies in Choice Reaction Tasks. *Jap. J. EEG & EMG*, 13, 38, 1985.

Hirose, H.: Disorders of Phonation and Articulation. *J. Otolaryngol. Jpn.*, 88, 1485, 1985.

Hirose, H., S. Niimi, K. Honda and M. Sawashima: The Relationship between the Transglottal Pressure Difference and the Degree of Glottal Opening. *J. Jpn. Bronchoesophagol. Soc.*, 36, 240-241, 1985.

Hirose, H. and T. Takafuji: Observation of Alaryngeal Speech. *Jpn. J. Logop. Phoniatr.*, 27, 114, 1986.

Hosoi, H., Y. Yoshioka, T. Kono, F. Ota and S. Imaizumi: Evaluation of Hearing Aid Using Confusion Maps. *Audiology Japan*, 28, 4, 659-660, 1985.

- Imaizumi, S.: Acoustic Correlates of Pathological Voice. Jpn. J. Logop. Phoniatr., 27, 27, 1986.
- Ishii, T., K. Harada, K. Furukawa, K. Yao, H. Takahashi, T. Shitara and S. Niimi: Morphological Study of Cricothyroid Muscle. J. Jpn. Bronchoesophagol. Soc., 36, 215, 1985.
- Itoh, K.: Analysis of Alpha-Wave in a Neuro-Synaptic Circuit. Jap. J. EEG & EMG, 14, 17, 1986.
- Kase, Y., T. Ushijima, K. Honda, S. Niimi and H. Hirose: Statistical Observation of Sulcus Vocalis. Jpn. J. Logop. Phoniatr., 26, 33-34, 1985.
- Kawamura, M., J. Shioda, Y. Fukusako, K. Endo, I. F. Tatsumi and H. Hirose: Articulation Disorder in a Case of Marchiafava-Bignami Disease. Jpn. J. Logop. Phoniatr., 27, 64-65, 1986.
- Kumai, K., K. Suzuki and S. Niimi: A Case of Developmental Speech Disorder. Jpn. J. Logop. Phoniatr., 26, 74, 1985.
- Kuriyagawa, F.: Formant Features of Hebrew Vowels. Bull. of the Society for Near Eastern Study in Japan, 28(2), 114-115, 1985.
- Nakahara, M., T. Ishii, K. Furukawa, T. Shitara and S. Niimi: Radiographic Analysis of the Hyoid Bone during Deglutition. J. Jpn. Bronchoesophagol. Soc., 36, 210, 1985.
- Nakahara, M., K. Furukawa, T. Shitara and S. Niimi: Cineradiographic Analysis of the Hyoid Bone during Deglutition. J. Otolaryngol. Jpn. 88, 1432, 1985.
- Niimi, S., H. Hirose and Z. Simada: Observation of Tongue Dynamics by Using the Ultrasonic Tomography. Jpn. J. Logop. Phoniatr. 26, 81-82, 1985.
- Niimi, S., H. Hirose, S. Kiritani and T. Ushijima: Analysis of Tongue Dynamics by Using the Ultrasonic Tomography. J. Otolaryngol. Jpn. 88, 1358, 1985.
- Sawashima, K. Honda and Y. Aoki: Measurement of Expiratory (Lung) Pressure by Use of the Airway Interruption Method. Jpn. J. Logop. Phoniatr., 27, 115-116, 1986.
- Shirasaka, Y., N. Nishizawa, S. Shibata and M. Sawashima: A Case of Dysarthria Due to Pseudobulbar Palsy Treated by the Pharyngeal Flap Operation and by Use of the Chin-Cap. Jpn. J. Logop. Phoniatr., 27, 61-62, 1986.
- Takami, M., K. Kumai, A. Saraya, K. Suzuki, Z. Simada and S. Niimi: Acoustical Study of Lateralization of /k,g/. Jpn. J. Logop. Phoniatr., 26, 91-92, 1985.
- Tayama, J., H. Tanaka, S. Niimi and H. Hirose: A Clinical Study

of White Lesions in the Larynx. J. Jpn. Bronchoesophagol. Soc., 36, 243, 1985.

Ushijima, T., Y. Kase, K. Honda, S. Niimi and H. Hirose: Phonatory Function of Sulcus Vocalis --Pre and Post Silicone Injection--. Jpn. J. Logop. Phoniatr. 26, 123-124, 1985.

Yamaguchi, H., Y. Yotsukura, H. Hirose, S. Sawaki and K. Oishi: Voice Therapy for Patients with Voice Disorders. Jpn. J. Logop. Phoniatr., 27, 38-39, 1986.

B.2. Contributions in Meeting Proceedings etc.

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

Hirose, H., S. Niimi, K. Honda and M. Sawashima: The Relationship between Glottal Opening and the Transglottal Pressure Difference during Consonant Production. Transactions of the Committee on Speech Research, Acoust. Soc. Jpn., S85-27, 1985.

Honda, K.: Biomechanical Interactions between Fundamental Frequency Control and Vowel Articulation. Transactions of the Committee on Speech Research, Acoust. Soc. Jpn., S85-28, 1985.

Hosoi, H., S. Imaizumi, K. Murata and F. Ota: Hearing Aid Evaluation by Using Psychoacoustic Proximity between Japanese Monosyllables. Transactions of the Committee on Speech Research, Acoust. Soc. Jpn., S85-83/H86-9, 1985.

Imagawa, H., S. Kiritani, K. Honda and H. Hirose: Method for the High-Speed Digital Recording of Vocal Fold Vibration Using a Laryngeal Endoscope and an Image Sensor. Transaction of the Committee on Speech Research, Acoust. Soc. Jpn., S85-102, 1986.

Kameyama, T., K. Hiramatsu, O. Saitoh, S. Niwa and K. Itoh: Schizophrenic Attentional and Cognitive Deficits and Cerebral Laterality --Event-Related Potentials as an Index. Proceeding of the Meeting on Role of Hemispheric Integrative Functions in Genesis and Pathology of Functional Psychosis, 21-23, 1985.

Sawashima, M., S. Niimi, S. Horiguchi, H. Hirose and K. Honda: Expiratory Lung Pressure, Air Flow Rate and Voice Intensity during Phonation. Transactions of the Committee on Speech Research, Acoust. Soc. Jpn., S85-89, 1986.

Sawashima, M. and S. Kiritani: Electropalatographic Studies on Japanese Intervocalic /d/ and /r/. Transactions of the Committee on Speech Research, Acoust. Soc. Jpn., S85-97, 1986.

Sekimoto, S.: Identification of the Frequency Expanded or Compressed Vowels Embedded in Sentence Contexts. Transaction of the Committee on Speech Research, Acoust. Soc. Jpn., S85-32, 1985.

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

Akimoto, M., K. Hiramatsu, S. Niwa, T. Kameyama, O. Saitoh, M. Fukuda and K. Itoh: Event-Related Potentials Indicate Deficits in Schizophrenic Information Processing --Failure of Positive Components to Task Irrelevant Stimuli. Proceeding of the 7th Congress of Biological Psychiatry, 10, 1985.

Honda, K., S. Kiritani, H. Imagawa, H. Hirose and K. Hashimoto: High-Speed Digital Recording of Vocal Fold Vibration Using a Solid-State Image Sensor and an Oblique-Angled Solid Endoscope. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 139-140, 1985.

Honda, K., S. Kiritani, H. Imagawa and H. Hirose: High-Speed Digital Image Recording System for Studying Vocal Fold Vibration. National Convention Record, the Institute of Electronics and Communication Engineers of Japan, Part 1, 127, 1986.

Imaizumi, S.: Acoustic Measures of Pathological Voice Qualities --Breathiness--. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 265-266, 1985.

Imaizumi, S., S. Niimi and S. Kiritani: Simultaneous Measurement of Pressure and Flow Velocity in the Vocal Tract --Its Significance and Method--. Reports of the 1986 Spring Meeting of the Acoust. Soc. Jpn., 145-146, 1986.

Itoh, K.: Analysis of Alpha-Wave in a Neuro-Synaptic Circuit. Proceeding of the 15th Conference of EEG & EMG, 223, 1986.

Kameyama, T., S. Niwa, K. Hiramatsu, O. Saitoh, M. Fukuda and K. Itoh: Biological Consideration on Psychotropic Drug Actions on Schizophrenic Attentional and Cognitive Deficits --Event-Related Potentials as an Index. Proceeding of the 7th Congress of Biological Psychiatry, 11, 1985.

Kiritani, S., K. Honda, H. Imagawa and H. Hirose: Simultaneous High-Speed Digital Recording of Vocal Fold Vibration and Speech. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 141-142, 1985.

Kiritani, S., S. Niimi and H. Hirose: A Method for Real Time Superposed Display of the Palatal Contour and the Ultrasonic Tomogram of the Tongue. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 149-150, 1985.

Kiritani, S., H. Imagawa, K. Honda and H. Hirose: The Pattern of Vocal Fold Vibration and Excitation Characteristics of Speech Signal, Reports of the 1986 Spring Meeting of the Acoust. Soc. Jpn., 125-126, 1986.

Kiritani, S., H. Imagawa, K. Honda and H. Hirose: High-Speed Digital Recording of Vocal Fold Vibration Using a Fiberscope and a CCD-Sensor. National Convention Record, the Institute of Electronics and Communication Engineers of Japan, Part 7, 168, 1986.

Kuriyagawa, F: Formant Features of Hebrew Vowels. Proceedings of the 27th Conference of the Society for Near Eastern Study in Japan, 12, 1985.

Masaki, S., S. Kiritani, S. Niimi and K. Shirai: Influence of Speaking Rate on Articulatory Movements in the Production of Vowel Sequences. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 145-146, 1985.

Masaki, S., S. Kiritani, S. Niimi and K. Shirai: Influence of Speaking Rate on Tongue and Jaw Positions for Vowel Production --Ultrasonic Observation--. Reports of the 1986 Spring Meeting of the Acoust. Soc. Jpn., 135-136, 1986.

Sekimoto, S.: The Effect of the Preceding Context on the Intelligibility of the Frequency Compressed Vowels. Reports of the 1985 Autumn Meeting of the Acoust. Soc. Jpn., 247-248, 1985.

B.3. Contributions in Separate Publications

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

Kameyama, T., S. Niwa, K. Hiramatsu, O. Saitoh, M. Fukuda and K. Itoh: Biological Consideration on Psychotropic Drug Action on Schizophrenic Attentional and Cognitive Deficits. Progress in Biological Psychiatry, Hesco-Int., Tokyo, 52-61, 1985.

B.3.ii. Monographs

none

B.4. Translations

none