

## PUBLICATIONS

### I. Recent Publications (August 1969 - June 1970)

#### A. Publications in English

##### Original Contributions

- O. Fujimura, S. Kiritani, and H. Ishida, "Digitally Controlled Dynamic Radiography," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 1-34 (1969).
- O. Fujimura, "Technological Developments for Language Learning," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 81-110 (1969).
- O. Fujimura and R. Kagaya, "Structural Patterns of Chinese Characters," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 131-148 (1969).
- H. Hirose, Z. Simada, and Kiritani, "An Electromyographic Study of Articulatory Movements," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 42-55 (1969).
- H. Kameda, "Natural and Artificial Information Processing Systems: A Preliminary Observation toward a Model of the Brain," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 72-80 (1969).
- S. -Y. Kuroda, "Remarks on the Notion of Subject with Reference to Words like Also, Even, or Only, Illustrating Certain Manners in Which Formal Systems Are Employed as Auxiliary Devices in Linguistic Descriptions. Part 1," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 111-130 (1969).
- P. Lieberman, M. Sawashima, K. S. Harris, and T. J. Gay, "The Articulatory Implimentation of the Breath-group and Prominence: Crico-thyroid Muscular Activity in Intonation," Status Report on Speech Research (Haskins Laboratories), SR-17/18, 83-117 (1969).
- S. Sasanuma, M. Itoh, and O. Fujimura, "Impairment of the Kanji and Kana Processings in Aphasic Patients-A Preliminary Report on Experiment 1," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 56-66 (1969).
- M. Sawashima, A. S. Abramson, F. S. Cooper, and L. Lisker, "Observing Laryngeal Adjustments during Speech by Use of a Fiber-optics System," Status Report on Speech Research (Haskins Laboratories), SR-19/20, 201-210 (1969).
- M. Sawashima, T. J. Gay, and K. S. Harris, "Laryngeal Muscle Activity during Vocal Pitch and Intensity Changes," Status Report on Speech Research (Haskins Laboratories), SR-19/20, 211-220 (1969).
- G. Totsuka, H. Hirose, T. Kobayashi, and S. Niimi, "A Clinical and Electromyographic Study of Postoperative Facial Palsy," Pract. Otolaryng. Vol. 32, 19-28 (1970).

#### Review Articles

- O. Fujimura, and H. Ishida, "Computer Display Applications in Physiological Research," The J. of the Inst. of Electronics and Communication Engineers of Japan, Vol. 53, 533-537 (1970).
- O. Fujimura, "Current Issues in Experimental Phonetics," Studies in General and Oriental Linguistics, Tokyo: Tec Co. (in press).
- O. Fujimura, "Report on the IV International Seminar Linguistic Theory," (to be published in "Sciences of Language").

#### Meeting Papers in Proceedings etc.

- O. Fujimura, H. Ishida, and Kiritani, "Tracking of Articulatory Movements by Means of a Computer-controlled X-ray Microbeam," Acoust. Soc. Am., Vol. 47, No. 1, 84 (1970).
- M. Sawashima, S. S. Abramson, F.S. Cooper, and L. Lisker, "Motion Pictures of the Vocal Folds in Speech," J. of Acoust. Soc. Am. Vol. 47, 105 (1970).
- H. Ishida, "A Hybrid Magnetic Tape Transport as an Audio Response Unit," Proc. of 1969 DECUS Fall Symposium, 95-99 (1969).

#### Monographs and Handbooks

- O. Fujimura, "Remarks on stop Consonants--Synthesis Experiments and Acoustic Cues," (to be published in "Festschrift for Eli Fischer-Jørgensen").

#### Demonstration Films and Tapes

"Observation of the Larynx during Speech"

#### B. Publications in Japanese

##### Original Contributions

- H. Ishida, "A Small Display Unit and its Applications," J. of Information Processing Society, Vol. 10, No. 3, 150-154 (1969).
- R. Kagaya, and O. Fujimura, "Automatic Display of Chinese Characters Based on the Structural Description," Reprints for the Study Meeting on Automata, No. A69-60, 1-10 (1969).
- H. Takahasi, and H. Kameda, "A Conception of Operating System Construction," J. of the Information Society of Japan, Vol. 11, No. 1, 20-31 (1970).

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- O. Fujimura, "Language and Machine," Information and Documentation, Vol. 12, No. 3, 116-121 (1969).
- O. Fujimura, "Language and Information," Shiso (Thought), No. 5, 59-67 (1970).
- H. Ishida, "A Single-Instruction Computer," Kyoritsu Monthly Bulletin, April, 1-3 (1970).

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- S. Furukawa and H. Ishida, "Synthesis and Display of Chinese Characters by Unit Composition," Automaton Research Group Note (Inst. of Elec. and Electronic Eng. of Japan), (1969).

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- I. Fujii and O. Fujimura, "Phoneme Identification by Dynamic Palatography," Reports of the 1970 Spring Meeting of the Acoust. Soc. of Japan, 209-210 (1970).
- O. Fujimura, H. Ishida, and S. Kiritani, "A Preliminary Study of the Computer Controlled Synchro Cineradiography," Reports of the 1969 Autumn Meeting of the Acoust. Soc. of Japan, 209-210 (1969).
- H. Hirose and M. Sawashima, "A Study of Articulatory Movements in Cleft Palate Speech," Japan J. of Logopedics and Phoniatics Vol. 10, 21(1969).
- H. Hirose, Z. Simada, S. Kiritani, and T. Kobayashi, "An Electromyographic Study of the Cricothyroid Muscle in Relation to the Japanese Word Accent," Japan J. of Logopedics and Phoniatics, Vol. 10, No. 2, 45-46 (1969).
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- H. Hirose, Z. Simada, and O. Fujimura, "Activities of the Intrinsic Laryngeal Muscle During Speech Utterances," Reports of the 1970 Spring Meeting of the Acoust. Soc. of Japan, 211-212(1970).
- H. Hirose, Z. Simada, S. Kiritani, and O. Fujimura, "Functions of the Laryngeal Muscles in Respect to Word Accent Distinction," Reports of the 1970 Spring Meeting of the Acoust. Soc. of Japan, 213-214 (1970).
- H. Ishide and S. Furukawa, "SCRIPTER: a Programming Language for a Teaching Machine," Proc. of 11th Programming Symposium, D27-D39(1970).
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- S. Kiritani, O. Fujimura, and H. Ishida, "Observation of the Hyoid Bone by means of a Computer Controlled Dynamic Radiography," Reports of the 1970 Spring Meeting of the Acoust. Soc. of Japan, 217-218(1970).
- S. Niimi, S. Maeda, I. Fujii, and H. Hirose, "Variation of the Fundamental Period Near the Voice Onset," Japan J. of Logopedics and Phoniatics, Vol. 10, No. 2, 46-47(1969).
- J. Ohala and H. Hirose, "The Function of the Sternohyoid Muscle in Speech," Reports of the 1969 Autumn Meeting the Acoust. Soc. of Japan, 359-360(1969).
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- T. Ushijima, T. Kobayashi, H. Yonekawa, H. Hirose, and F. Yoneyama, "A Clinical Study of Dysphonia in Female Caused by Anabolic Steroids," Japan J. of Logopedics and Phoniatics, Vol. 10, No. 2, 41-42(1969).

- T. Watanabe and S. Simada, "On Temporal Masking," Reports of the 1969 Autumn Meeting of the Acoust. Soc. of Japan, 45-46 (1969).

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- O. Fujimura, "Progress in Speech Science," A Chapter on Fundamentals of Speech Science, Tokyo: Tokyo University Press (in press).
- O. Fujimura, "New Physiology," A Chapter on Speech and Language, Tokyo: Igaku Syoin Publishing Co. (in press).
- O. Fujimura, "Text Book of Voice Disorders," A Chapter on General Characteristics of Sound, Tokyo: Igaku Syoin Publishing Co. (in press).
- H. Hirose, "Text Book of Voice Disorders," A Chapter on Mechanism of Phonation, Symptomatology, and Treatment, Tokyo: Igaku Syoin Publishing Co. (in press).
- H. Ishida and K. Kimura, "Electronic Computers--FORTRAN, Assembler and Application," Tokyo:Shokodo (1970).
- M. Sawashima, "Text Book of Voice Disorders," Chapters on "Mechanism of Phonation" and "Diagnostic Procedures," Tokyo: Igaku Syoin Publishing Co. (in press).

II. Selected Bibliographies of the Staff

(except items listed in Part I)

Osamu FUJIMURA

A. Publications in English

Original Contributions

- "Sound Synthesizer with Optical Control," J. Acoust. Soc. Am., Vol. 30, 56-57 (1958).
- S. Hattori, K. Yamamoto, and O. Fujimura, "Nasalization of Vowels in Relations to Nasals," J. Acoust. Soc. Am., Vol. 30, 267-274 (1958).
- "Review of the Sound System of Standard Japanese by F. J. Daniels," J. Acoust. Soc. Am., Vol. 31, 1968(1959).
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- O. Fujimura, H. Ishida, and S. Kiritani, "Computer Controlled Dynamic Cineradiography," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 2, 6-10 (1968).
- S. Kiritani, T. Hayata, S. Okamoto, and O. Fujimura, "Factors Contributing to the Difficulty in Pronunciation," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 2, 39-41 (1968).
- S. Maeda and O. Fujimura, "Factors of the Glottal Wave That Contribute to the Naturalness of Speech," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 2, 46-51 (1968).
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- S. Sasanuma, M. Itoh, and O. Fujimura, "Impairment of the Kana Processings in Aphasic Patients - A Preliminary Report on Experiment 1," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 56-66 (1969).
- "Technological Developments for Language Learning," Annual Bulletin (Research Institute of Logopedics and Phoniatics, University of Tokyo) No. 3, 81-110 (1969).
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#### Progress Reports

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- O. Fujimura and J. Lindqvist, "The Sinewave Response of the Vocal Tract," Speech Transmission Laboratory Quarterly Progress and Status Report (Royal Institute of Technology, Stockholm) No. 1, 5-10 (1964).
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- Y. Kato, K. Ochiai, O. Fujimura, and S. Maeda, "A Vocoder Excitation with Dynamically Controlled Voicedness," Conference Preprints, Paper E3: 288-291, 1967 Conference on Speech Communication and Processing (AFCRL-IEEE), (November, 1967).
- M. Sawashima, H. Hirose, and O. Fujimura, "Observation of the Larynx by a Fiberscope Inserted through the Nose," The 74th Meeting of the Acoustical Society of America, Paper GG-5, 69 (November, 1967).
- "An Approximation to Voice Aperiodicity," Conference Preprints, Paper E2, 284-288, 1967 Conference on Speech Communication and Processing (AFCRL-IEEE), (November 1967). Full text published in IEEE Transactions (1968).
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- O. Fujimura, H. Ishida, and S. Kiritani, "Computer Controlled Dynamic Cineradiography," Digital Equipment Computer Users Society 1969 (Spring Symposium) 279-287 (May, 1969).
- I. Kirikae, C. Satta, O. Fujimura, and M. Sawashima, "Movements of the Glottis during Speech Utterances," The 14th International Congress of Logopedics and Phoniatrics (September, 1968).
- S. Maeda, O. Fujimura, and M. Sawashima, "Voice Aperiodicity in Terms of Pulse Shape and Interval," Reports of the 6th International Congress on Acoustics II, B-43--B-46 (1968).
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- O. Fujimura, T. Ogawa, and Hiki, "On the Speech Sound Synthesizer by Use of ADP Piezo-optic Resonators," J. Acoust. Soc. Japan, Vol. 41, 129-137 (1958).
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- A chapter on "Speech and Language," New Physiology, Tokyo: Igaku Shoin Publ. Co. (in Press).
- A chapter on "General Characteristics of Sound," Text Book on Voice Disorders, Tokyo: Igaku Shoin Publ. Co. (in Press).

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### Masayuki SAWASHIMA

#### A. Publications in English

##### Original Contributions

- I. Kirikae, H. Hirose, S. Kawamura, M. Sawashima, and T. Kobayashi, "An Experimental Study of Central Motor Innervation of the Laryngeal Muscles in the Cat," Ann. Otol. (St. Louis), Vol. 71, No. 1, 222-241 (1962).
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