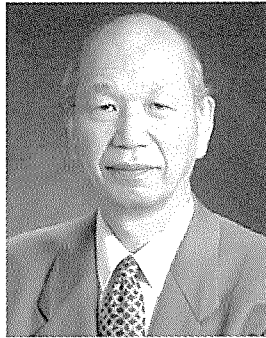


# 牧野正三教授業績目録

平成22年3月  
東北大学史料館  
(著作目録第1126号)



## 牧 野 正 三 教 授 略 歴

生年月日	昭和22年1月3日生
本 籍 地	宮城県
職 名	教授
所 属	工学研究科 電気・通信工学専攻

### 最終学歴

昭和44年3月	東北大学工学部電子工学科卒業
昭和46年3月	東北大学大学院工学研究科電気及通信工学専攻修士課程修了
昭和49年10月	東北大学大学院工学研究科電気及通信工学専攻博士課程修了

### 職 歴

昭和49年10月	東北大学電気通信研究所助手
昭和56年4月	東北大学応用情報学研究センター助手
昭和59年2月	音声認識学研究のため客員研究員として米国に出張（昭和61年2月まで）
昭和62年4月	東北大学応用情報学研究センター助教授
平成5年4月	東北大学大学院情報科学研究科助教授
平成7年4月	東北大学大型計算機センター教授
平成13年4月	東北大学情報シナジーセンター教授
平成13年6月	東北大学大学院工学研究科教授
平成18年4月	東北大学大学院工学研究科創造工学センターセンター長（平成20年3月まで）
平成22年3月	東北大学を定年退職

### 学 位

昭和49年10月工学博士（東北大学）

## 受 賞

平成19年 7 月	International Conference on Education and Information Systems, Technologies and Applications(EISTA07) 最優秀論文賞
平成19年11月	3rd International Conference on Intelligent Information Hiding and Multimedia Signal Processing 最優秀論文賞
平成20年 3 月	小柴昌俊科学教育賞奨励賞（平成科学財団）
平成20年10月	IEEE International conference on Natural Language Processings and knowledge Engineerings 最優秀論文賞
平成21年 7 月	文部科学大臣科学技術賞（理解増進部門）

## 学会等における活動

電子情報通信学会「音声研究会」研究専門委員会専門委員（平成 3 年－平成11年）  
同上 副委員長（平成 3 年－平成 4 年）  
人工知能学会「言語・音声理解と対話処理研究会」連絡委員（平成 4 年－平成 6 年）  
情報処理学会「音声言語研究会」連絡委員（平成 6 年－平成16年）  
電子情報通信学会「思考と言語」研究専門委員会 専門委員（平成 6 年－平成12年）  
日本音響学会 評議員（平成 5 年－現在）  
電子情報通信学会和文論文誌 D II「音声言語によるコミュニケーションシステムの実現に向けて」特集号編集委員会 編集委員（平成 8 年－平成10年）  
電子情報通信学会情報・システムソサエティ和文論文誌「音声情報処理：現状と将来技術」特集号編集委員会 編集幹事（平成12年－平成13年）  
電子情報通信学会情報・システムソサエティ和文論文誌「システム開発論文」特集号編集委員会 編集委員長（平成13年－平成14年）  
電子情報通信学会情報・システムソサエティ和文論文誌編集委員会 編集委員（平成10年－平成14年）  
電子情報通信学会情報・システムソサエティ和文論文誌編集委員会 編集幹事（平成11年－平成13年）  
電子情報通信学会情報・システムソサエティ和文論文誌編集委員会 編集委員長（平成14年－平成16年）  
電子情報通信学会情報・システムソサエティ編集担当 副会長（平成16年－平成17年）  
第 3 回米日合同音響学会 座長（平成10年）  
第18回国際音響学会議 プログラム委員（平成15年－平成16年）

## 社会における活動

国立大学全国共同利用 8 センター ライブラリ・データベース連絡会主査（平成10年－平成13年）  
東北ガス事業地図情報ネットワークシステム調査委員会 委員長（平成 8 年－平成10年）  
宮城県ものづくり人材育成連携推進会議 委員長（平成19年－平成22年）



## 業 績 目 録

## I. 著書・編書（共著書等含む）

1. 音声情報処理（編著比企静雄）（執筆担当部分）辞書と音形規則を用いた単語音声認識．板橋秀一，牧野正三，城戸健一，昭和48年10月，東京大学出版会
2. TRENDS IN SPEECH RECOGNITION (W.A. LEA 編著)（執筆担当部分）Recent Work on Speech Recognition in Japan. 483-498, Hisashi Wakita and Shozo Makino, Sept. 1980, Prentice Hall
3. パターン認識・理解の新たな展開（小川英光編著）（執筆担当部分）音声現象と識別学習．71-74, 牧野正三，平成6年2月，電子情報通信学会
4. 東北方言考2（執筆担当部分）曖昧音調地域における世代別アクセント推移の研究 — 山形県の有アクセント・無アクセント接触地帯の音相分析 —．小林隆，佐藤和之，加藤正信，牧野正三，城戸健一，平成6年12月，ゆまに書房
5. 数学物理学演習（編著堀口剛，三宅章吾）（執筆担当部分）89-96．牧野正三，平成8年4月，昭光堂

## II. 調査報告書（科研費報告書など）

1. Speech Science and Technology（編著 Shuzo Saito）（執筆担当部分）A Speaker Independent Word Recognition System. 270-276, Shozo Makino and Ken'iti Kido, Oct. 1992, Ohmsha
2. RECENT RESEARCH TOWARDS ADVANCED MAN-MACHINE INTERFACE THROUGH SPOKEN LANGUAGE (Ed. Hiroya Fujisaki)（執筆担当部分）A Japanese Text Dictation System Based on Phoneme Recognition and a Dependency grammar. 193-204. S. Makino, A. Ito, M. Endo and K. Kido, Dec. 1996, ELSEVIER
3. 日本語音声〔1〕 諸方言のアクセントとイントネーション（編著佐藤亮一，真田真治，加藤正信，板橋秀一）（執筆担当部分）音声の収録，CD-ROM 音声データベース．牧野正三，273-276, 282-287．平成9年7月，三省堂
4. 発見科学とデータマイニング（執筆担当部分）第23章．鈴木基之，牧野正三，平成17年5月，共立出版

## III. 研究論文（単独執筆・共同執筆）

1. A Consideration on Segmentation of Spoken Words. S. ITAHASHI, S. MAKINO and K. KIDO, 日本音響学会誌, 26, 7, 310-311, 昭和45年7月

2. AUTOMATIC SEGMENTATION AND DISCRIMINATION OF SPOKEN WORDS BY USE OF LEXICON. Ken'iti Kido, Shuichi Itahashi and Shozo Makino, Proceeding of International Conference on Electrical & Electronics Engineering, 345-353, Oct. 1970
3. SPOKEN WORD RECOGNITION USING WORD DICTIONARY AND PHONOLOGICAL RULES. S. ITAHASHI, S. MAKINO, K.KIDO, Proceedings of 7-th ICA, 97-100, Oct. 1971
4. Discrete-Word Recognition Utilizing a Word Dictionary and Phonological Rules. SHUICHI ITAHASHI, SHOZO MAKINO and KEN'ITI KIDO, IEEE TRANSACTIONS ON AUDIO AND ELECTROACOUSTICS, AU-21, 239-249, June 1973
5. RECOGNITION OF SPOKEN WORDS BY USE OF SPECTRAL PEAKS AND LEXICON. Ken'iti Kido, Hisayoshi Suzuki, Shozo Makino and Takahide Matsuoka, Proceedings of IEEE Symposium on Speech Recognition, 45-54, Aug. 1974
6. SPOKEN WORD RECOGNITION BY ORDERED KEY FEATURES IN WORDS. Makino S., Suzuki H., Kido K., Proceedings of 8th ICA, 262, Aug. 1974
7. 音声スペクトルの概略形とその動特性を利用した単語音声認識システム. 三輪譲二, 新津善弘, 牧野正三, 城戸健一, 日本音響学会誌, 34, 3, 186-193, 昭和53年3月
8. Spoken Word Recognition System for Unlimited Adult Male Speakers. Ken'iti KIDO, Takahide MATSUOKA, Jouji MIWA and Shozo MAKINO, Transactions OF IECE OF Japan, E61, 593-598, Aug. 1978
9. SPOKEN WORD RECOGNITION SYSTEM FOR UNLIMITED SPEAKERS. Ken'iti Kido, Shozo Makino, Jouji Miwa and Yoshihiro Niitsu, PROCEEDINGS OF THE FOURTH INTERNATIONAL JOINT CONFERENCE ON PATTERN RECOGNITION, 980-984, Nov. 1978
10. Segmentation and recognition of phonemes using gross features of the speech spectrum and their dynamic properties. Jouji Miwa, Shozo Makino and Ken'iti Kido, Supplement of ASA and ASJ the First Joint Meeting, Dec. 1978
11. Word recognition using confusion matrices for computing similarities among phonemes. Shozo Makino, Jouji Miwa and Ken'iti Kido, Supplement of ASA and ASJ the First Joint Meeting Dec. 1978
12. 単語音声自動認識における言語情報の一利用法. 新津善弘, 三輪譲二, 牧野正三, 城戸健一, 電子通信学会論文誌 D, J62-D, 1, 24-31, 昭和54年1月

13. 近距離単語間の認識に必要な音素対の性質. 牧野正三, 城戸健一, 電子通信学会論文誌 D, J62-D, 8, 507-514, 昭和54年 8 月
14. 非線形スペクトルマッチングによる単語音声認識の一方式. 三輪譲二, 小原政彦, 牧野正三, 城戸健一, 電子通信学会論文誌 D, J64-D, 1, 46-53, 昭和56年 1 月
15. 判別分析による音素の特徴抽出. 川端 豪, 牧野正三, 城戸健一, 電子通信学会論文誌 A, J65-A, 12, 1278-1285, 昭和57年12月
16. Speaker-Independent Recognition of Vowels in Japanese Words Using the Spectral Local Peaks. Kyung Tae Kim, Shozo Makino and Ken'iti Kido, Proceedings of 2nd JAPAN-KOREA SYMPOSIUM on ACOUSTICS, 367-373, Apr. 1983
17. Speaker independent word recognition system based on phoneme recognition for a large size vocabulary. Shozo Makino, Shigeru Homma, and Ken'iti Kido, Proceedings of 2nd JAPAN-KOREA SYMPOSIUM on ACOUSTICS, 381-388, Apr. 1983
18. Recognition of consonant based on the Perceptron model. Shozo Makino, Takeshi Kawabata and Ken'iti Kido, PROCEEDING OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 738-741, Apr. 1983
19. 時間一周波数パターンを用いた無声破裂音の認識. 井出和之, 牧野正三, 城戸健一, 日本音響学会誌, 39, 5, 321-329, 昭和58年 5 月
20. 音韻論的特徴量を用いた 4 層形子音認識モデル. 川端 豪, 牧野正三, 城戸健一, 電子通信学会論文誌 D, J67-D,1, 141-148, 昭和59年 1 月
21. A SPEAKER INDEPENDENT WORD RECOGNITION SYSTEM BASED ON PHONEME RECOGNITION FOR A LARGE SIZE (212 WORDS) VOCABULARY. Shozo Makino and Ken'iti Kido, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 17.8.1-17.8.4, Apr. 1984
22. Recognition of vowels in Japanese words using spectral local peaks. Kyung Tae Kim, Shozo Makino, and Ken'iti Kido, The Journal of the Acoustical Society of Japan(E), 5, 5, 253-262, Oct. 1984
23. Lexical analysis for word recognition based on phoneme-pair differences. Shozo Makino, Hisashi Wakita, and Ken'iti Kido, Supplements of the 108-th ASA meeting, OO9-OO9, Oct. 1984

24. スペクトルのローカルピークを用いた不特定成人男性話者を対象とする単語音声認識システム. 牧野正三, 川端 豪, 三輪譲二, 城戸健一, 電子通信学会論文誌 D, J67-D, 11, 1364-1371, 昭和59年11月
25. Speaker independent word recognition system based on phoneme recognition for a large size (212 words) Vocabulary. Shozo Makino, Shigeru Homma, and Ken'iti Kido, The Journal of the Acoustical Society of Japan(E), 6 ,3, 171-180, June 1985
26. RECOGNITION OF PHONEMES USING TIME-SPECTRUM PATTERN. Shozo MAKINO and Ken'iti KIDO, Speech Communication, 5, 2, 225-237, Feb. 1986
27. 重回帰モデルによる後続音との調音結合を考慮した有声破裂音の認識. 岡田美智男, 牧野正三, 城戸健一, 電子通信学会論文誌 A, J69-A, 3, 463-471, 昭和61年3月
28. PERCEPTUALLY BASED PROCESSING IN AUTOMATIC SPEECH RECOGNITION. Hynek Hermansky, Kazuhiro Tsuga, Shozo Makino, and Hisashi Wakita, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 1971-1974, Apr. 1986
29. PHONEME RECOGNITION IN CONTINUOUS SPEECH USING PHONEME DISCRIMINANT FILTERS. Satoshi MORIAI, Shozo MAKINO and Ken'iti KIDO, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 2251-2254, Apr. 1986
30. AUTOMATIC LABELING SYSTEM USING SPEAKER-DEPENDENT PHONETIC UNIT REFERENCES. SHOZO MAKINO, HISASHI WAKITA, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 2783-2786, Apr. 1986
31. SPEECH RECOGNITION BY USE OF WORD DICTIONARY WRITTEN IN LINGUISTIC UNIT. Ken'iti KIDO, Shozo MAKINO, Michio OKADA, Satoshi MORIAI and Tetsuo KOSAKA, Proceedings of Montreal Symposium on Speech Recognition, 87-88, Sep. 1986
32. AUTOMATIC LABELING SYSTEM FOR LARGE SPEECH DATABASE. Shozo Makino, and Hisashi Wakita, Proceedings of 12th ICA, A4-8-A4-8, Sep. 1986
33. Recognition of stop consonants in Japanese words using local spectral peaks. Kyung Tae Kim, Shozo Makino, and Ken'iti Kido, The Journal of the Acoustical Society of Japan(E), 7,6, 325-334, Dec. 1986



34. スペクトルの時間変化パターンによる語頭音素の識別. 岡田美智男, 牧野正三, 城戸健一, 電子情報通信学会論文誌 A, J70-A, 8, 1174-1185, 昭和62年 8 月
35. Speaker Independent Recognition of Spoken Words Through Phoneme Recognition. Ken'iti Kido, and Shozo Makino, Proceedings of NATIONAL SYMPOSIUM ON ACOUSTICS, 8-10, Aug. 1987
36. THE IMPROVEMENT OF VOWEL RECOGNITION IN NOISY RUNNING CAR USING A-WEIGHTING TO FREQUENCY CHARACTERISTIC. Shozo Makino, Tomoyoshi Aoki, Naomitsu Ikeda, Hideaki Koga, and Ken'iti Kido, Proceedings of Inter-noise 87, 1045-1048, Sep. 1987
37. 単語中の鼻子音, 破裂子音のスペクトル時系列に含まれる変動要因の分析. 岡田美智男, 牧野正三, 城戸健一, 電子情報通信学会論文誌 A, J70-A, 10, 1371-1382, 昭和62年10月
38. 音響ディジタル信号処理を主目的とする高速演算装置  $\mu$  KIDDOCH. 安倍正人, 嶋 明弘, 上田 隆, 金井 浩, 牧野正三, 城戸健一, 情報処理学会論文誌, 28, 12, 1306-1317, 昭和62年12月
39. 構文駆動型 DP 法による連続音声からの活用語のスポッティング. 岡田美智男, 伊藤彰則, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D, J70-D, 12, 2479-2490, 昭和62年12月
40. スペクトルの傾斜とローカルピークを用いた語中母音の認識. 古賀秀昭, 牧野正三, 城戸健一, 日本音響学会誌, 44, 3, 194-200, 昭和63年 3 月
41. 音素判別フィルタの出力統合による音素認識法. 盛合 敏, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D, J71-D, 6, 1028-1036, 昭和63年 6 月
42. マルチパルス駆動自己回帰過程からの全極型伝達関数と駆動パルス列の同時推定法. 金井 浩, 安倍正人, 牧野正三, 城戸健一, 日本音響学会誌, 44, 7, 503-509, 昭和63年 7 月
43. SHAPE ESTIMATION OF FOUNDATION CONCRETE PILES BY ANALYZING REACTIONS OF PILE HEAD TO HUMMER-PULSE. K. Kido, X. Gao, H. Kanai, M. Abe, S. Makino, Y. Tsukada, T. Sakai, and S. Chiba, Proceedings of Third International Conferences on Application of Stress-Wave Theory to Piles, 107-114, Sep. 1988
44. DIAGNOSIS OF LOCAL BUCKLING OF FOUNDATION CONCRETE PILES BY ANALYZING REACTION OF PILE HEAD TO HAMMER-PULSE. K. Kido, X. Gao, H. Kaneko, H. Kanai, M. Abe, S. Makino, Y. Tsukada, T. Sasaki, and S. Chiba, Proceedings of Third International Conference on Application of Strss-Wave Theory to Piles, 115-122, Sep. 1988

45. 標準パターンの時間軸掃引による音素区間からの破裂子音，鼻子音の認識．井出和之，牧野正三，石森 進，城戸健一，電気学会論文誌C 電子・情報・システム部門誌，108-C，10，810-817，昭和63年10月
46. 文節スポッティングに基づく日本語文音声の認識．岡田美智男，松尾 広，伊藤彰則，小川洋一，牧野正三，城戸健一，電気学会論文誌C 電子・情報・システム部門誌，108-C，10，826-833，昭和63年10月
47. 母音認識におけるスペクトルの2値化の一方法．古賀秀昭，牧野正三，城戸健一，日本音響学会誌，44，10，755-758，昭和63年10月
48. Analysis and recognition of Korean isolated vowels using formant frequency. Hyun-yeol Chung, Shozo Makino, and Ken'iti Kido, The Journal of the Acoustical Society of Japan (E), 9, 5, 810-817, Oct. 1988
49. On the listening tests using natural speech of 8 Korean vowels. H-Y. Chung, S. Makino, and K. Kido, The Journal of the Acoustical Society of Japan (E), 9, 6, 305-307, Oct. 1988
50. BUNSETSU-SPOTTING BASED LINGUISTIC PROCESSING FOR A JAPANESE DICTATION SYSTEM. Shozo Makino, Akinori Ito, Yoiti Ogawa, Michio Okada, and Ken'iti Kido, Preprints of The Second Symposium on Advance Man-Machine Interface Through Spoken Language, 29-1-29-10, Dec. 1988
51. A TRACE-like speech perception simulation model for the recognition of Japanese phoneme. Meinrad Niemoller, Shozo Makino, and Ken'iti Kido, Supplement of ASA and ASJ the Second Joint Meeting, U21-U21, Dec. 1988
52. A method for selecting an optimum phoneme sequence using a posteriori probabilities of phonemes. Shozo Makino, Satoshi Moriai, and Ken'iti Kido, Supplement of ASA and ASJ the Second Joint Meeting, PPP5-PPP5, Dec. 1988
53. Analysis, perception and recognition of isolated Korean vowels. Hyun-yeol Chung, Shozo Makino, and Ken'iti Kido, Supplement of ASA and ASJ the Second Joint Meeting, PPP14-PPP14, Dec. 1988
54. Morphemic and syntactic analysis in a Japanese dictation system. Akinori Ito, Yoiti Ogawa, Michio Okada, Shozo Makino, and Ken'iti Kido, Supplement of ASA and ASJ the Second Joint Meeting, PPP35-PPP35, Dec. 1988
55. An isolated spoken word database using CD-ROMs. Shozo Makino, Masato Abe, and Ken'iti Kido, Supplement of ASA and ASJ the Second Joint Meeting, PPP37-PPP37, Dec. 1988

56. Preliminary investigation on shape estimation of concrete pile by vibration analysis, Xueming Gao, Yutaka Kaneko, Hiroshi Kanai, Masato Abe, Shozo Makino and Ken'iti Kido, The Journal of the Acoustical Society of Japan (E), 10, 1, 5-10, Feb. 1989
57. ローカルピークによる語中母音の認識率改善の一方法. 古賀秀昭, 牧野正三, 城戸健一, 日本音響学会誌, 45, 4, 290-292, 平成元年 4 月
58. スペクトルの時間変化, ローカルピーク, 傾斜を利用した破裂子音の検出と認識の検討. 廖莉莉, 牧野正三, 城戸健一, 日本音響学会誌, 45, 7, 499-506, 平成元年 7 月
59. テーパ窓を用いた特異値分解と極推定による 1 次元空間上の複数音源の位置推定. 金井 浩, 永田仁史, 安倍正人, 牧野正三, 城戸健一, 日本音響学会誌, 45, 9, 681-688, 平成元年 9 月
60. デーヴァナーガリ文字における類似した文字の認識法. 鈴木昭浩, 金井 浩, 川添良幸, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D-II, J72-D-II, 9, 1588-1591, 平成元年 9 月
61. A PITCH AND FORMANT FREQUENCY TRACKING SYSTEM USING A DYNAMIC PROGRAMMING ALGORITHM BASED ON VARIOUS KINDS OF KNOWLEDGE. Shozo Makino, Toshihiko Shirokaze, and Ken'iti Kido, Proceedings of 13th ICA, 453-456, Sep. 1989
62. 韓国語破裂子音の分析と認識. 鄭鉉烈, 牧野正三, 城戸健一, 李茂永, 電子情報通信学会論文誌 A, J72-A, 10, 1484-1496, 平成元年10月
63. 切出しと認識を同時に行う活字デーヴァナーガリ文献の認識法. 鈴木昭浩, 金井 浩, 川添良幸, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D-II, J72-D-II, 10, 1643-1649, 平成元年10月
64. 伝達関数を利用した少数サンプルからの辞書画像の推定. 鈴木昭浩, 金井 浩, 川添良幸, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D-II, J72-D-II, 11, 1833-1838, 平成元年11月
65. LINGUISTIC PROCESSING IN JAPANESE DICTATION SYSTEM. Shozo Makino, Akinori Ito, Mitsuru Endo, and Ken'iti Kido, Preprints of The Third Symposium on Advance Man-Machine Interface Through Spoken Language, 25-1-25-10, Dec. 1989
66. 発話全体の連続性を考慮した基本周波数の抽出. 城風敏彦, 牧野正三, 城戸健一, 電子情報通信学会論文誌 A, J73-A, 8, 1537-1539, 平成 2 年 9 月
67. PERFORMANCE EVALUATION IN SPEECH RECOGNITION SYSTEM USING TRANSITION PROBABILITY BETWEEN LINGUISTIC UNITS. Takashi Otsuki, Shozo Makino, Toshio Sone and Ken'iti Kido, Proceedings of International Conference on Spoken Language Processing, 1213-1216, Sep. 1990

68. 単語中母音の聴取実験結果と認識実験結果の比較. 古賀秀昭, 牧野正三, 城戸健一, 日本音響学会誌, 46, 10, 795-801, 平成2年10月
69. A DISTRIBUTED SPEECH DATABASE WITH AN AUTOMATIC ACQUISITION SYSTEM OF SPEECH INFORMATION. Shozo Makino, Toshihiko Shirokaze, and Ken'iti Kido, Proceedings of International Conference on Spoken Language Processing, 1109-1112, Nov. 1990
70. A JAPANESE TEXT DICTATION SYSTEM BASED ON PHONEME RECOGNITION USING A MODIFIED LVQ2 METHOD. Shozo Makino, Akinori Ito, Mitsuru Endo and Ken'iti Kido, Proceedings of International Conference on Spoken Language Processing, 241-244, Nov. 1990
71. 音素の持続時間モデルに基づく検証法を用いた単語音声認識. 松尾 広, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D-II, J73-D-II, 12, 1936-1944, 平成2年12月
72. 音声情報の自動獲得機能を持つ分散型大規模音声データベース「K-DB」. 城風敏彦, 牧野正三, 城戸健一, 情報処理学会論文誌, 32, 1, 62-70, 平成3年1月
73. ホルマントを用いた中国語単母音の分析と認識. 張 中, 牧野正三, 木村正行, 城戸健一, 日本音響学会誌, 47, 4, 281-288, 平成3年1月
74. A JAPANESE TEXT DICTATION SYSTEM BASED ON PHONEME RECOGNITION AND A DEPENDENCY GRAMMAR. Shozo Makino, Akinori Ito, Mitsuru Endo and Ken'iti Kido, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 273-276, Apr. 1991
75. A Japanese Text Dictation System Based on Phoneme Recognition and a Dependency Grammar. Shozo MAKINO, Akinori ITO, Mitsuru ENDO, and Ken'iti KIDO, IEICE TRANSACTIONS on Fundamentals of Electronics, E-74, 1773-1782, July 1991
76. PARSING OF SPOKEN JAPANESE SENTENCES USING THE FUNCTIONAL WORD PREDICTION CYK ALGORITHM. Akinori Ito, Shozo Makino and Ken'iti Kido, PROCEEDINGS OF KOREA-JAPAN JOINT SYMPOSIUM ON ACOUSTICS, 218-221, Aug. 1991
77. PHONEME RECOGNITION USING A MODIFIED LVQ2 METHOD. Shozo Makino, Mitsuru Endo, Toshio Sone, and Ken'iti Kido, PROCEEDINGS OF KOREA-JAPAN JOINT SYMPOSIUM ON ACOUSTICS, 56-61, Aug. 1991
78. 機能語予測 CYK 法による日本語文音声の統語処理. 伊藤彰則, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D-II, J74-D-II, 9, 1147-1155, 平成3年9月

79. 調音結合モデルを用いた中国語複合母音の認識. 張 中, 牧野正三, 城戸健一, 電子情報通信学会論文誌 D- II, J74-D- II, 9, 1156-1164, 平成 3 年 9 月
80. Phoneme recognition using a modified LVQ2 method. Shozo Makino, Mitsuru Endo, Toshio Sone, and Ken'iti Kido, Proceedings of WESTPRAC, 196-203, Sep. 1991
81. CONTINUOUS SPEECH RECOGNITION WITH MODIFIED LEARNING VECTOR QUANTIZATION ALGORITHM AND TWO-LEVEL DP-MATCHING. Shozo Makino, Mitsuru Endo, Toshio Sone, and Ken'iti Kido, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 597-600, Apr. 1992
82. WORD PRE-SELECTION USING A REDUNDANT HASH ADDRESSING METHOD FOR CONTINUOUS SPEECH RECOGNITION. Akinori ITO and Shozo MAKINO, Proceedings of International Conference on Spoken Language Processing, 309-312, Nov. 1992
83. Recognition of phonemes in continuous speech using a modified LVQ2 method. Shozo Makino, Mitsuru Endo, Toshio Sone, and Ken'iti Kido, The Journal of the Acoustical Society of Japan(E), 13, 6, 351-360, Dec. 1992
84. A NEW WORD PRE-SELECTION METHOD BASED ON AN EXTENDED REDUNDANT HASH ADDRESSING FOR CONTINUOUS SPEECH RECOGNITION. Akinori Ito, Shozo Makino, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, II-299- II-302, Apr. 1993
85. 音素・文字間の遷移情報を用いた単語認識の性能予測. 大槻恭士, 伊藤彰則, 牧野正三, 曾根敏夫, 電子情報通信学会論文誌 D- II, J76-D- II, 6, 1090-1096, June 1993
86. A Spoken Word Recognition System with Adaptability to Speaking Rate of Input Speech. Shozo Makino, Yukihiro Osaka, and Toshio Sone, Proceedings of International Workshop on Speech Processing, 19-24, Aug. 1993
87. A FAST WORD PRE-SELECTION BASED ON SPEECH FRAGMENTS FOR CONTINUOUS SPEECH RECOGNITION. Akinori ITO, and Shozo MAKINO, Proceedings of International Workshop on Speech Processing, 19-24, Aug. 1993
88. A CONTINUOUS SPEECH RECOGNITION SYSTEM USING A MODIFIED LVQ2 METHOD AND A DEPENDENCY GRAMMAR WITH SEMANTIC CONSTRAINTS. SHOZO MAKINO, AKINORI ITO, MITSURU ENDO and KEN'ITI KIDO, International Journal of Pattern Recognition and Artificial Intelligence, 8, 1, 197-213, Jan. 1994

89. 単語の出現確率を用いた単語認識の性能予測. 大槻恭士, 伊藤彰則, 牧野正三, 大友照彦, 電子情報通信学会論文誌 A, J77-A, 2, 274-281, Feb. 1994
90. KOREAN CONSONANT RECOGNITION USING A MODIFIED LVQ2 METHOD. Shozo Makino, Yoshiyuki Okimoto, Ken'iti Kido, Hoi Rin Kim, and Young Ju Lee, Proceedings of Western Pacific Regional Acoustics Conference, 1033-1038, Aug. 1994
91. Spoken Word Recognition Using Phoneme Duration Information Estimated from Speaking Rate of Input Speech. Yukihiro OSAKA, Shozo MAKINO, and Toshio SONE, Proceedings of International Conference on Spoken Language Processing, 191-194, Nov. 1994
92. THE PERFORMANCE EVALUATION METHOD ON SENTENCE RECOGNITION SYSTEM USING A FINITE STATE AUTOMATON. Takashi Otsuki, Akinori Ito, Shozo Makino and Teruhiko Otomo, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, I-397-I-400, Nov. 1994
93. ローカルピークによる単母音認識に及ぼす時間窓とリフタの影響. 古賀秀昭, 牧野正三, 城戸健一, 日本音響学会誌, 51, 2, 130-132, 平成7年2月
94. 拡張 RHA 法による連続音声認識のための単語予備選択. 伊藤彰則, 牧野正三, 電子情報通信学会論文誌 D-II, J78-D-II, 3, 400-408, 平成7年3月
95. A New HMnet Construction Algorithm Requiring No Contextual Factors. Motoyuki SUZUKI, Shozo MAKINO, Akinori ITO, Hirotomo ASO and Hiroshi SHIMODAIRA, IEICE Transactions on Information and Systems, E78-D, 6, 662-668, June 1995
96. Japanese Document Recognition Based on interpolated n-gram Model of Character. Hiroki Mori, Hirotomo Aso, and Shozo Makino, Proceedings of Third International Conference on Document Analysis and Recognition, 274-277, Nov. 1995
97. PHONEME RECOGNITION USING REFERENCE PATTERNS CONSTRUCTED WITH DISCRIMINATIVE TRAINING AND DP-MATCHING. Yoshiyuki OKIMOTO, and Shozo MAKINO, Supplement of ASA and ASJ the Third Meeting, 100, 4, 1141-1144, Dec. 1995
98. ACQUISITION OF LANGUAGE MODELS BASED ON HMNET. Motoyuki SUZUKI, Shozo MAKINO, and Hiromoto ASO, Supplement of ASA and ASJ the Third Meeting, 100, 4, 993-998, Dec. 1995
99. The Performance Prediction on Sentence Recognition Using a Finite State Word Automaton. Takashi OTSUKI, Akinori ITO, Shozo MAKINO, and Teruhiko OHTOMO, IEICE Transactions on Information and Systems, E79-D, 1, 47-53, Jan. 1996

100. Robust n-gram Model of Japanese Character and its Application to Document Recognition. Hiroki MORI, Hirotomo ASO, and Shozo MAKINO, IEICE Transactions on Information and Systems, E79-D, 5, 471-476, May 1996
101. Automatic Acquisition of Language Model using HMnet. Shozo MAKINO, Motoyuki SUZUKI, and Atsushi HARADA, Proceedings of International Conference on Speech Processing, 1, 47-54, Nov. 1997
102. THE STABILITY AND CONVERGENCE CHARACTERISTICS OF DELAYED-X LMS ALGORITHM IN SYSTEMS. G. CHEN, T. SONE, M. ABE, and S. MAKINO, Journal of Sound and Vibration, 216, 4, 637-648, Aug. 1998
103. A Study of Noise Robustness for Speaker Independent Speech Recognition Method Using Phoneme Similarity Vector. Masakatsu HOSHIMI, Maki YAMADA, Katsuyuki NIYADA, and Shozo MAKINO, Proceedings of International Conference on Spoken Language Processing, 2, 325-328, Nov. 1998
104. High-Speed Speaker Adaptation Using Phoneme-Dependent Tree-Structured Speaker Clustering. M. SUZUKI, T. ABE, H. MORI, S. MAKINO, H. ASO, Proceedings of International Conference on Spoken Language Processing, 6, 2299-2302, Nov. 1998
105. Automatic Acquisition of Phoneme Models and Its Application to Phoneme Labeling of a Large Size of Speech Corpus. Motoyuki Suzuki, Teruhiko Maeda, Hiroki Mori and Shozo Makino, Proceedings of Discovery Sciences, 437-438, Nov. 1998
106. 離散型 HMnet を用いた言語モデルの獲得. 鈴木基之, 原田 淳, 牧野正三, 阿曾弘具, 電子情報通信学会論文誌 D-II, J81-D-II, 12, 2695-2702, Dec. 1998
107. 単語知識を必要としない高精度な言語モデル. 森 大毅, 阿曾弘具, 牧野正三, 自然言語処理, 6, 2, 29-40, 平成11年1月
108. AN AUTOMATIC ACQUISITION METHOD OF STATISTIC FINITE-STATE AUTOMATON FOR SENTENCES. Motoyuki SUZUKI, Shozo MAKINO, and Hirotomo ASO, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 2, 737-740, Apr. 1999
109. 地域パラメータを利用した NOAA AVHRR 画像の雲域判定. 李宇炯, 河野公一, 狩戸信宏, 工藤純一, 牧野正三, 画像電子学会誌, 28, 4, 339-348, 平成11年4月

110. 3次元ヒストグラムを用いた NOAA AVHRR 画像からの海域の抽出法. 河野 公一, 工藤純一, 牧野正三, 画像電子学会誌, 28, 6, 704-711, 平成11年 6 月
111. 音素ごとの木構造話者クラスタリングによる話者適応. 鈴木基之, 阿部俊朗, 森 大毅, 牧野正三, 阿曾弘具, 電子情報通信学会論文誌 D-II, J82-D-II, 6, 981-989, 平成11年 6 月
112. Category Extraction of NOAA AVHRR Images by Using 3 Dimensional Histograms. Koichi KAWANO, Jun-ichi KUDOH, Shozo MAKINO, Proceedings of the International Geoscience and Remote Sensing Symposium, 1285-1287, Aug. 1999
113. Cloud Elimination Method for Temporal analysis in the Far East Region with NOAA AVHRR. Woo-hyoung Lee, Jun-ichi Kudoh, Shozo Makino, Proceedings of the International Geoscience and Remote Sensing Symposium, 628-630, Aug. 1999
114. Forest Fire Detection in Far East Region of Russia by Using NOAA AVHRR Images. Koicho KAWANO, Jun-ichi KUDOH, Shozo MAKINO, Proceedings of the International Geoscience and Remote Sensing Symposium, 858-860, Aug. 1999
115. Structural Noise Modeling for Speech Recognition. Hiroki Mori, Kiyotaka Muraki, Motoyuki Suzuki, Shozo Makino, Hirotomo Aso, Proceedings of International Conference on Speech Processing, 1, 135-140, Sept. 1999
116. Speech recognition using acoustic segment model based on Hidden Markov Network. Takafumi Hayashi, Hiroki Mori, Motoyuki Suzuki, Shozo Makino, Hirotomo Aso, Proceedings of International Conference on Speech Processing, 299-304, Sept. 1999
117. Proposition of Successor-Predictable Context and its application to large-vocabulary continuous speech recognition. Masami Baba, Hiroki Mori, Shozo Makino, and Hirotomo Aso, Proceedings of International Conference on Speech Processing, 371-376, Sept. 1999
118. A NEW CLOUD DETECTION ALGORITHM FOR NOAA AVHRR IMAGERY. Woo-hyoung Lee, Jun-ichi Kudoh, and Shozo Makino, Proceedings of IEEE Region10 Conference, 170-173, Oct. 1999
119. Automatic Phoneme Labeling System using Adaptation Methods. Yuichi Ohkawa, Teruhiko Maeda, Motoyuki Suzuki, Shozo Makino, Proceedings of the Second International Workshop on East-Asian Language Resource and Evaluation, 93-96, Oct. 1999



120. An Automatic Acquisition of Acoustical Units for Speech Recognition Based on Hidden Markov Network. Motoyuki Suzuki, Takafumi Hayashi, Hiroki Mori, Shozo Makino, Hiroto Aso, Proceedings of Discovery Science, 357–358, Dec. 1999
121. 隠れマルコフ網の構造に基づく話者間距離計算法. 鈴木基之, 牧野正三, 人工知能学会誌, 15, 5, 871–877, 平成12年 5 月
122. 音響類似性に基づく認識単位を用いた音声認識. 林 貴文, 森 大毅, 鈴木基之, 牧野正三, 阿曾弘具, 電子情報通信学会論文誌 D–II, J83–D–II, 11, 2137–2145, 平成12年11月
123. Automatic Determination Algorithm for the Optimum Number of States in NL–Hmnet. Motoyuki Suzuki and Shozo Makino, Proceedings of Discovery Sciences, 306–310, Dec. 2000
124. Cloud detection for the Far East region Using NOAA AVHRR images, W–H LEE, J–I. KUDOH and S. MAKINO, International Journal of Remote Sensing, 22, 7, 1349–1360, July 2001
125. A study on Media Retrieval using Keywords over WWW. Eiichiro Kodama, Masatoshi Miyazaki, Motoyuki Suzuki, Shozo Makino, Proceedings of the 9th HCI International 2001, 28–30, Aug. 2001
126. 離散型 HMnet における最適な状態数の自動決定法. 鈴木基之, 牧野正三, 電子情報通信学会論文誌, J85–D–II, 2, 193–199, 平成14年 2 月
127. HMM を用いた複数 n–gram モデルによる言語モデルの構築. 長野 雄, 鈴木基之, 牧野正三, 情報処理学会論文誌, 43, 7, 2075–2081, 平成14年 7 月
128. 自己相似性を用いたセグメント量子化による音声符号化. 木幡 稔, 三ッ屋郁哉, 鈴木基之, 牧野正三, 電子情報通信学会論文誌, J85–D–II, 7, 1166–1175, 平成14年 7 月
129. A Portable spoken dialog system for autonomous robots. Takashi Konashi, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Proceeding of 1st International Workshop on Language Understanding and Agents for Real–world Interaction, 79–84, May 2003
130. 英語 CALL 構築を目的とした日本人及び米国人による読み上げ英語音声データベースの構築. 峯松信明, 富山義弘, 吉本 啓, 清水克正, 中川聖一, 壇辻正剛, 牧野正三, 教育工学会誌, 27, 3, 259–272, 平成15年 6 月
131. Analysis of pronunciation errors in Japanese speech uttered by Korean towards development of Japanese CALL system. Oh Pyo Kweon, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Proceedings of Oriental–COCOSDA2003, 185–192, June 2003

132. Multiple pitch candidate based music information retrieval method for query-by-humming. Sung-Phil Heo, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Hyun-Yeol Chung, Proceedings of 1st International Workshop on Adaptive Multimedia Retrieval, 189–200, Sept. 2003
133. An Optimized Multi-duration HMM for Spontaneous Speech Recognition. Yuichi Ohkawa, Akihiro Yoshida, Motoyuki Suzuki, Akinori Ito and Shozo Makino, Proceedings of European Conference on Speech Communication and Technology, 485–488, Sept. 2003
134. Three dimensional continuous DP algorithm for multiple pitch candidates in music information retrieval system. Akinori Ito, Sung-Phil Heo, Motoyuki Suzuki, Shozo Makino, Proceedings of 4th International Symposium on Music Information Retrieval, 235–236, Oct. 2003
135. A Patient Care Service Robot System Based on a State Transition Architecture. Yutaka Hiroi, Eiji Nakano, Takayuki Takahashi, Shozo Makino, Akinori Ito, Koji Kotani, Nobuo Takatsu, Tadahiro Ohmi, Proceedings of the 2nd International Conference on Mechatronics and Information Technology, 231–236, Dec. 2003
136. An Evaluation Method of Japanese Pronunciation for Korean Native Speakers. Oh Pyo Kweon, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Educational Technology Research, 27, 1, 1–8, Jan. 2004
137. A dialogue-based CALL system for Japanese conversation. Oh-Pyo Kweon, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Proceedings of the 18th International Congress on Acoustics, 3, 2015–2018, Apr. 2004
138. Language Modeling Using Stochastic Switching N-gram. Takeshi Nagano, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Proceedings of the 18th International Congress on Acoustics, 5, 3697–3700, Apr. 2004
139. Language Modeling by an Ergodic HMM based on an N-gram. Takeshi Nagano, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Proceedings of the 18th International Congress on Acoustics, 5, 3701–3704, Apr. 2004
140. A spoken dialog system based on automatic grammar generation and template-based weighting for autonomous mobile robots. Takashi Konashi, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 1, 189–192, Oct. 2004
141. Noise Adaptive Spoken Dialog System based on Selection of Multiple Dialog Strategies. Akinori Ito, Takanobu Oba, Takashi Konashi, Motoyuki Suzuki, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 1, 193–196, Oct. 2004

142. A Japanese dialogue-based CALL system with mispronunciation and grammar error detection. Oh Pyo Kweon, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 3, 1833-1836, Oct. 2004
143. Speaker Adaptation Method for CALL Systems Using Bilingual Speakers' Utterances. Motoyuki Suzuki, Hirokazu Ogasawara, Akinori Ito, Yuichi Ohkawa, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 4, 2929-2932, Oct. 2004
144. Comparison of Features for DP-matching based Query-by-Humming System. Akinori Ito, Sung-Phil Heo, Motoyuki Suzuki, Shozo Makino, Proceedings of the 5th International Conference on Music Information Retrieval, 297-302, Oct. 2004
145. A New Segment Quantizer for Line Spectral Frequencies Using Lempel-Ziv Algorithm, Minoru Kohata, Motoyuki Suzuki, Shozo Makino, PROCEEDINGS OF IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, 1, 133-136, Apr. 2005
146. Fast optimization of language model weight and insertion penalty from n-best candidates. Akinori Ito, Masashi Kohda, Shozo Makino, Acoustic Sciences and Technologies, 26, 4, 384-387, July 2005
147. A grammatical error detection method for dialogue-based CALL system. Oh-pyo Kweon, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Journal of Natural Language Processing, 12, 4, 137-156, Aug. 2005
148. CALL と音響分析, 牧野正三, 音声研究, 9, 2, 16-27, 平成17年 8 月
149. Pronunciation Error Detection Method based on Error Rule Clustering using a Decision Tree. Akinori Ito, Yen-Ling Lim, Motoyuki Suzuki, Shozo Makino, Proceedings of INTERSPEECH2005, 173-176, Sept. 2005
150. Internal Noise Suppression for Speech Recognition by Small Robots. Akinori Ito, Takashi Kanayama, Motoyuki Suzuki, Shozo Makino, Proceedings of INTERSPEECH2005, 2685-2688, Sept. 2005
151. Construction Method of Acoustic Models Dealing with Various Background Noises Based on Combination of HMMs. Motoyuki Suzuki, Yusuke Kato, Akinori Ito, Shozo Makino, Proceedings of INTERSPEECH2005, 973-976, Sept. 2005
152. Lyrics Recognition from a Singing Voice based on Finite State Automaton for Music Information Retrieval. Toru Hosoya, Motoyuki Suzuki, Akinori Ito, Shozo Makino Proceedings of Sixth International Conference on Music Information Retrieval, 532-535, Sept. 2005

153. Smile and Laughter Recognition using Speech Processing and Face Recognition. Akinori Ito, Xinyue Wang, Motoyuki Suzuki, Shozo Makino, Proceedings of 2005 International Conference on Cyberworlds, 437–444, Nov. 2005
154. Automatic detection of English mispronunciation using speaker adaptation and automatic assessment of English intonation and rhythm. Akinori Ito, Tadao Nagasawa, Hirokazu Ogasawara, Motoyuki Suzuki, Shozo Makino, Educational Technology Research, 29, 13–23, Jan. 2006
155. An Effective Music Information Retrieval Method Using Three-Dimensional Continuous DP. Sung-Phil Heo, Motoyuki Suzuki, Akinori Ito, Shozo Makino, IEEE Transactions on Multimedia, 8, 3, 633–639, Mar. 2006
156. Evaluation of multiple PLSA adaptation based on separation of topic and style words. Akinori Ito, Naoto Kuriyama, Motoyuki Suzuki, Shozo Makino, Proceedings of 9th Western-Pacific Acoustic Conference, June 2006
157. Packet loss concealment of audio stream based on multiple description by spectrum striping. Motoyuki Suzuki, Toshiyuki Sakai, Akinori Ito, Shozo Makino, Proceedings of 9th Western-Pacific Acoustic Conference, June 2006
158. Lempel-Ziv 符号化を用いた LSP 係数のセグメント量子化. 木幡 稔, 鈴木基之, 伊藤彰則, 牧野正三, 電子情報通信学会論文誌 D-II, J89-D-II, 7, 1504–1513, 平成18年7月
159. Music Information Retrieval from a Singing Voice Based on Verification of Recognized Hypothesis. Motoyuki Suzuki, Toru Hosoya, Akinori Ito, Shozo Makino, Proceedings of International Conference on Music Information Retrieval, 168–171, Aug. 2006
160. A user simulator based on Voice XML for evaluation of spoken dialog systems. Akinori Ito, Keisuke Shimada, Motoyuki Suzuki, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 1045–1048, Oct. 2006
161. Multiple Description Coding of an Audio Stream by Optimum Recovery Transform. Akinori Ito and Shozo Makino, Proceedings of 2nd International Conference on Intelligent Information Hiding and Multimedia Signal Processing, 19–22, Oct. 2006
162. Unsupervised language model adaptation based on automatic text collection from WWW. Motoyuki Suzuki, Yasutomo Kajiura, Akinori Ito, Shozo Makino, Proceedings of International Conference on Spoken Language Processing, 2202–2205, Oct. 2006

163. Generating search query in unsupervised language model adaptation using WWW. Yasutomo Kajiura, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Supplement of fourth joint meeting of ASA and ASJ, 120, 5, 3043–3044, Dec. 2006
164. A phoneme duration model considering speaking-rate and linguistic features for speech recognition. Yuichi Ohkawa, Akinori Ito, Motoyuki Suzuki, Shozo Makino, Supplement of fourth joint meeting of ASA and ASJ, 120, 5, 3041–3041, Dec. 2006
165. 発話速度と言語的要因による変動を考慮した音素持続時間モデルを用いた音声認識. 大河雄一, 伊藤彰則, 鈴木基之, 牧野正三, 情報処理学会論文誌, 47, 12, 3380–3391, 平成18年12月
166. Music Information Retrieval from a Singing Voice Using Lyrics and Melody Information. Motoyuki Suzuki, Toru Hosoya, Akinori Ito, Shozo Makino, EURASIP Journal on Advances in Signal Processing, 2007 (Article ID 38727), Jan. 2007
167. 決定木を用いた単語クラスタリングによる英語韻律自動評価の高精度化. 伊藤彰則, 今野 樹, 鈴木基之, 牧野正三, 電子情報通信学会論文誌(D), J91–D, 2, 538–548, 平成19年 2 月
168. Pronunciation error detection for computer-assisted language learning system based on error rule clustering using a decision tree. Akinori Ito, Yen-Ling Lim, Motoyuki Suzuki, Shozo Makino, Acoustical Science and Technology, 28, 2, 131–133, Mar. 2007
169. Asynchronous Parallel Distributed Genetic Algorithm with Elite Migration. Kazunori Kojima, Masaaki Ishigame, Goutam Chakraborty, Hiroshi Matsuo, and Shozo Makino, International Journal of Computational Intelligence, 4, 2, 105–111, Apr. 2007
170. A New Segment Quantization Using Lempel–Ziv Algorithm and Its Application to Quantization of Line Spectral Frequencies. Minoru KOHATA, Motoyuki SUZUKI, Akinori ITO, Shozo MAKINO, IEEE Transactions on Communications, 55, 4, 661–664, Apr. 2007
171. Automatic Evaluation System of English Prosody for Japanese Learner's Speech. Motoyuki Suzuki, Tatsuki Konno, Akinori Ito, Shozo Makino, Proceedings of 5th International Conference on Education and Information Systems, Technologies and Applications(EISTA) 2007, 48–53, June 2007
172. Packet Loss Concealment of an Audio Stream by Time Domain and Frequency Domain Multiple Description. Akinori Ito, Toshiyuki Sakai, Motoyuki Dusuiki, and Shozo Makino, Proceedings of Japan–China Joint Conference on Acoustics 2007, P–1–31–P–1–31, June 2007

173. A PORTABLE SPOKEN DIALOG SYSTEM FOR AN AUTONOMOUS ROBOT. Shozo Makino, Akinori Ito, Motoyuki Suzuki, and Takashi Konashi, Proceedings of Japan-China Joint Conference on Acoustics 2007, SS-2-1-SS-2-1, June 2007
174. Reduction Method of Side Information for Packet Loss Concealment Based on Spectrum Striping Coding. Motoyuki Suzuki, Toshiyuki Sakai, Akinori Ito, and Shozo Makino, Proceedings of 19th International Congress on Acoustics, CAS-01-006-CAS-01-006, Sept. 2007
175. Detection and Direction Estimation of Calling Voice. Akinori Ito, Kota Kitadate, Motoyuki Suzuki, and Shozo Makino, Proceedings of 19th International Congress on Acoustics, CAS-03-018-CAS-03-018, Sept. 2007
176. Query-by-Singing/Humming systems based on speech recognition technologies. Motoyuki Suzuki, Akinori Ito, Shozo Makino, 154th Meeting of the Acoustical Society of America, Oct. 2007
177. Layered Server-Client Topology for Parallel Distributed GA on Large Problem. Kaunori Kojima, Masaaki Ishigame, Shozo Makino, Proceedings of ACAL2007, Oct. 2007
178. Increasing Correlation using a Few Bits for Multiple Description Coding. Akinori Ito, Shozo Makino, Proceedings of 3rd International Conference on Intelligent Information Hiding and Multiple Signal Processing, Nov. 2007
179. 小型ロボットによる音声認識のための内部雑音抑圧法. ヒューマンインターフェース学会誌, 伊藤彰則, 金山高志, 鈴木基之, 牧野正三, 10, 1, 1-10, 平成20年1月
180. Consideration of the Efficiency of Layered Server-Client Topology for PDGS on Large Problem. Kazunori KOJIMA, Masaaki ISHIGAME, Shozo MAKINO, Proceedings of AIA2008, Feb. 2008
181. Selection of Optimum Vocabulary and Dialog Strategy for Noise-Robust Spoken Dialog Systems. Akinori Ito, Takanobu Oba, Motoyuki Suzuki, Shozo Makino, IEICE Transactions on Information and Systems, E91-D, 3, 538-548, Mar. 2008
182. Multiple description coding of an audio stream by optimum recovery transforms. Akinori Ito, Shozo Makino, Journal of Digital Information Management, 6, 2, 189-195. Apr. 2008
183. Unsupervised Language Model Adaptation Based on Keyword Clustering and Query Availability Estimation. Akinori Ito, Yasutomo Kajiura, Shozo Makino, Motoyuki Suzuki, Proceedings of International Conference on Audio, Language and Image Processing, 1412-1418, July 2008

184. Packet loss concealment for MDCT-based audio codec using correlation-based side information. Akinori Ito, Kiyoshi Konno, Shozo Makino, Motoyuki Suzuki, Proceedings of 4th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, 612-615, Aug. 2008
185. A Fast Speaker Adaptation Method using Aspect Model, Seongjun HAHM, Akinori ITO, Shozo Makino, Motoyuki Suzuki, Proceedings of Interspeech 2008, 1221-1224, Sept. 2008
186. Discrimination of Task-Related Words for Vocabulary Design of Spoken Dialog Systems. Akinori Ito, Toyomi Meguro, Shozo Makino, Motoyuki Suzuki, Proceedings of Interspeech2008, 207-210, Sept. 2008
187. Recognition of English Utterances with Grammatical and Lexical Mistakes for Dialogue-based CALL System. Akinori Ito, Ryohei Tsutsui, Shozo Makino, Motoyuki Suzuki, Proceedings of Interspeech2008, 2819-2822, Sept. 2008
188. Intonation Evaluation of English Utterances using Synthesized Speech for Computer-Assisted Language Learning. Tomoaki Konno, Masashi Ito, Motoyuki Suzuki, Akinori Ito, Shozo Makino, Proceedings of International Conference on Natural Language Processing and Knowledge Engineering, 202-208, Oct. 2008
189. Performance Prediction on Sentence Recognition Using Statistical Language Models. Takashi Otsuki, Shozo Makino, Proceedings of oriental-COCOSDA 2008, Nov. 2008
190. 階層サーバ・クライアント型モデルによる非同期並列分散遺伝的アルゴリズム. システム制御情報学会論文誌, 22, 1, 1-12, 平成21年1月
191. Novel Tonal Feature and Statistical User Modeling for Query-by-Humming. MOTOYUKI SUZUKI, TAKUTO ICHIKAWA, AKINORI ITO, SHOZO MAKINO, IPSJ Journal, 17, 3, 95-105, Mar. 2009
192. Bit Rate Reduction of Mixed Excitation Linear Prediction Coder by Using Lempel-Ziv Segment Quantization. Minoru Kohata, Motoyuki Suzuki, Akinori Ito and Shozo Makino, Acoustical Science and Technology, 30, 2, 136-138, Apr. 2009
193. Fast and Robust Training of a Probabilistic Latent Semantic Analysis Model by the Parallel Learning and Data Segmentation. Masaharu Kato, Tetsuo Kosaka, Akinori Ito and Shozo Makino, Journal of Communication and Computer, 6, 5, 28-35, May 2009
194. Detection of Abnormal Sound Using Multi-stage GMM for Surveillance Microphone. Akinori Ito, Akihito Aiba, Masashi Ito, Shozo Makino, Proceedings of International Conference of Information Assurance and Security, IAS-2009-IS08-05, Aug. 2009

195. Data Hiding is a Better Way for Transmitting Side Information for MP3 Bitstream. Akinori Ito, Shozo Makino, Proceedings of 5th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, II H-MSP-2009-IS17-05, Sept. 2009
196. Evaluation of English Intonation based on Combination of Multiple Evaluation Scores. Akinori Ito, Tomoaki Konno, Masashi Ito, Shozo Makino, Proceedings of Interspeech2009, Mon-Ses3-P4, Sept. 2009
197. Detailed Description of Triphone Model using SSS-free Algorithm. Motoyuki Suzuki, Daisuke Homma, Akinori Ito, Shozo Makino, Proceedings of Interspeech 2009, Tue-Ses3-P2, Sept. 2009
198. Multiple Description Coding of Flash Video based on Adaptive Allocation of DCT Coefficients. Akinori Ito, Takuya Kuraishi, Masashi Ito, Shozo Makino, Proceedings of 2009 APSIPA Annual Summit & Conference (APSIPA ASC2009), TA-P2-2, Oct. 2009
199. A Speaker Adaptation Method for Non-native Speech Using Learners' Native Utterances for Computer-Assisted Language Learning Systems, Yuichi Ohkawa, Motoyuki Suzuki, Hirokazu Ogasawara, Akinori Ito, Shozo Makino, Speech Communication, 51, 10, 874-881, Oct. 2009
200. Designing Side Information of Multiple Description Coding. Akinori Ito, Shozo Makino, Journal of Information Hiding and Multimedia Signal Processing, 1, 1, 10-19, Jan. 2010
201. Packet Loss Concealment for MDCT-based Audio Codec Using Correlation-based Side Information. Akinori Ito, Toshiyuki Sakai, Kiyoshi Konno, Shozo Makino and Motoyuki Suzuki, International Journal of Innovative Computing, Information and Control, 6, 3, Mar. 2010
202. Intonation Evaluation of English Utterances using Synthesized Speech for Computer-assisted Language Learning. Akinori Ito, Tomoaki Konno, Masashi Ito, Shozo Makino, Motoyuki Suzuki, International Journal of Innovative Computing, Information and Control, 6, 3, Mar. 2010

#### Ⅳ. 口頭発表（学会報告など）

1. SPEECH RECOGNITION BY USE OF WORD DICTIONARY WRITTEN IN LINGUISTIC UNIT, Ken'iti KIDO, Shozo MAKINO, Michio OKADA, Satoshi MORIAI and Tetsuo KOSAKA, Montreal Symposium on Speech Recognition, Sept. 1986, Montreal, CANADA, 特別招待講演



2. Automatic Acquisition of Language Model using HMnet, Shozo MAKINO, Motoyuki SUZUKI, and Atsushi HARADA, International Conference on Speech Processing, Nov. 1997, Seoul, KOREA, 特別招待講演
3. Multi-modal Communication Using Speech and Gesture Recognition, Shozo Makino and Motoyuki Suzuki, International Symposium for the Future Information & Communication, Nov. 2000, Taegu, KOREA, 特別招待講演
4. 音声認識と理解のメカニズム. 牧野正三, 電子情報通信学会音声研究会, 平成11年6月, 日本国, 会津若松市, 特別招待講演
5. ロボットは聞き, 考え, 話す. 牧野正三, 東北大学100周年セミナー, 平成17年8月, 日本国, 東京都, 特別講演
6. 情報技術 (IT) を用いたロボット技術の現状と課題. 牧野正三, 岐阜医療情報研究会, 平成18年1月, 日本国, 岐阜市, 特別招待講演
7. IT とロボットの新しい技術が社会や医療分野に果たす役割, 岐阜医療情報研究会シンポジウム. 牧野正三, 平成18年1月, 日本国, 岐阜市, ワークショップ・パネリスト
8. IT とロボットの新しい技術が社会や医療分野に果たす役割 — 音声認識を中心として —. 牧野正三, 循環器学会, 平成18年3月, 日本国, 名古屋市, ワークショップ・パネリスト
9. 小中高校生への教育を通じた社会貢献. 牧野正三, 大学電気工学教育研究集会, 平成18年7月, 日本国, 米沢市, ワークショップ・パネリスト

## V. 書評・紹介

1. Handbook of Neural Networks for Speech Processing, 牧野正三, 日本音響学会誌, 57, 12, 798, 平成13年12月

## VI. 解説・評論等 (新聞・広報誌等での解説記事、事典の執筆等)

1. 単語音声認識. 牧野正三, 日本音響学会誌, 37, 5, 210–215, 昭和56年5月
2. 音声認識・理解の現状と将来課題. 牧野正三, 電子情報通信学会誌, 73, 12, 1295–1298, 平成2年12月
3. 東北大 — 松下単語音声データベース. 牧野正三, 二矢田勝行, 真船裕雄, 城戸健一, 日本音響学会誌, 48, 12, 899–905, 平成4年12月
4. 東北大 — 松下単語音声データベース. 牧野正三, 人文学と情報処理, 12, 56–59, 平成8年12月

5. 21世紀に向けての音声認識. 牧野正三, 情報処理学会誌, 41, 3, 273-276, 平成12年12月
6. 音声処理技術を用いた語学学習システム. 中川聖一, 牧野正三, 壇辻正剛, 日本音響学会誌, 59, 6, 337-344, 平成15年6月

## VII. その他（随想など）

なし