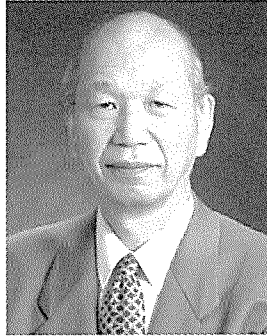


## 業績目録（牧野正三）

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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回来日合同音響学会 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
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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
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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
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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
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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
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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
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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. Tsukuda, 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. Tsukuda, 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
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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

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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
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Ⅶ. その他（随想など）

なし