Curriculum Vitae

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1. Education

- Ph.D., Mathematical Engineering and Instrumentation Physics, University of Tokyo, Tokyo, Japan, 1978
- M. S., Mathematical Engineering and Instrumentation Physics, University of Tokyo, Tokyo, Japan, 1970
- B. S., Mathematical Engineering and Instrumentation Physics, University of Tokyo, Tokyo, Japan, 1968

2. Honors and Awards

1975	Yonezawa Prize (IEICE)
1985	Sato Paper Award (ASJ)
1987	Sato Paper Award (ASJ)
1988	Best Paper Award (IEICE)
1989	Senior Award (Best Paper Award) (IEEE)
1989	Achievement Award from the Japanese Minister of Science and Technology
1990	Book Award (IEICE)
1993	Best Paper Award (IEICE)
1993	Distinguished Lecturer (IEEE)
1993	Fellow (IEEE)
1996	Fellow (Acoustical Society of America)
2001	Fellow (IEICE)
2001	Mira Paul Memorial Award (Acoustical Foundation, India)
2003	Best Paper Award (IEICE)
2003	Achievement Award (IEICE)
2005	Signal Processing Society Award (IEEE)
2006	Achievement Award from the Japanese Minister of Education, Culture, Sports,
	Science and Technology

2006	Purple Ribbon Medal from Japanese Emperor
2008	Distinguished Achievement Award (IEICE)
2008	Fellow (ISCA)
2009	Medal for Scientific Achievement (ISCA)
2010	James L. Flanagan Speech and Audio Processing Award (IEEE)
2012	NHK Broadcast Cultural Award
2012	Distinguished Lecturer (ISCA)
2013	Okawa Prize
2016	Accredited as Person of Cultural Merit by Japanese Government
2020	Permanent Honorary President of APSIPA
2020	ISCA Special Service Medal

IEEE: The Institute of Electrical and Electronics Engineers

ISCA: International Speech Communication Association

IEICE: The Institute of Electronics, Information and Communication Engineers, Japan

ASJ: The Acoustical Society of Japan

NHK: Nippon Hoso Kyokai (Japan Broadcasting Corporation)

3. Academic and Industrial Experiences

1970 - 1978	NTT (Nippon Telegraph and Telephone) Musashino Electrical Communication
	Labs, Researcher
1978 - 1979	AT&T Bell Labs, Visiting Researcher
1979 - 1982	NTT Basic Research Labs, Senior Researcher
1982 - 1984	NTT R&D Bureau, Senior Staff Engineer, Personnel and International Affairs
1984 - 1986	NTT Basic Research Labs, Senior Researcher
1986 - 1989	NTT Basic Research Labs, Head of 4th Research Section
1989 - 1991	NTT Human Interface Labs, Director of Speech & Acoustics Lab
1991 - 1997	NTT Human Interface Labs , Research Fellow, Director of Furui Research Lab
1994 - 1997	Tokyo Institute of Technology, Visiting Professor, Department of Computer
	Science
1997 - 2011	Tokyo Institute of Technology, Professor, Department of Computer Science
2007 - 2009	Tokyo Institute of Technology, Dean, Graduate School of Information Science
	and Engineering
2009 - 2011	Tokyo Institute of Technology, Director of University Library
2011 - 2012	Tokyo Institute of Technology, Institute Professor and Director of University
	Contents Utilization Center
2011 - 2015	Tokyo Institute of Technology, Professor at Academy for Global Leadership
2011-present	Tokyo Institute of Technology, Professor Emeritus
2013 - 2019	Toyota Technological Institute at Chicago, President
2017-present	Tokyo Institute of Technology, Honorary Professor
2019-present	Toyota Technological Institute at Chicago, Chair of the Board of Trustees
2020-present	National Institute of Informatics, Chief Research Director

4. Professional Experiences

1987 – 1990	Member, IEEE Speech Technical Committee
1989 - 2007	Board member, Acoustical Society of Japan (ASJ)
1991 – 1992	Chair, IEICE and ASJ Speech Technical Committee
1992 – 1994	Editor, IEICE Trans. Fundamentals of Electronics, Communications and
	Computer Sciences
1993 – 1994	Distinguished Lecturer, IEEE Signal Processing Society
1995 - 1999	Member, IEEE Press Editorial Board
1995 - 2002	Member, IEEE Multimedia Signal Processing Technical Committee
1997 – 1999	Editor, Journal of the ASJ
1997	General Chair, IEEE Workshop on Automatic Speech Recognition and
	Understanding
1998 - 2001	Editor, Journal of Speech Communication
2001 - 2003	President, ASJ
2001 - 2003	Chair, Steering Committee on IEEE Trans. Mobile Computing
2001 - 2003	IEEE Signal Processing Society Board of Governor
2001 - 2005	President, International Speech Communication Association (ISCA)
2001 - 2005	President, Permanent Council on International Conferences on Spoken
	Language Processing (PC-ICSLP)
2002 - 2004	Editor, English Journal of IEICE Trans. Information and Systems
2002 - 2005	Member, IEEE Jack Kilby Signal Processing Medal Committee
2003 - 2005	Member, IEEE James L. Flanagan Speech and Audio Processing Award
	Committee
2004 - 2008	Board member, IEICE
2005 - 2007	Member, IEEE Edison Medal Committee
2007	General Chair, IEEE Workshop on Automatic Speech Recognition and
	Understanding
2009 - 2013	Board member, ASJ
2009 - 2012	President, Asia-Pacific Signal and Information Processing Association
2010 - 2012	Chair, IEEE James L. Flanagan Speech and Audio Processing Award
	Committee
2011 - 2013	Member, IEEE Signal Processing Society Fellow Reference Committee
2012 - 2015	Member, IEEE Corporate Recognition Award Committee
2012 - 2015	Member, IEEE Signal Processing Society Nominations and Appointments
	Committee
2012 - 2015	Member, IEEE Jack S. Kilby Signal Processing Medal Committee
2012 - 2015	Board member, Asia-Pacific Signal and Information Processing Association
2013 - 2015	Member, IEEE Fourier Award for Signal Processing Committee
2014 - 2016	Chair, IEEE Signal Processing Society Fellow Reference Committee
2017 - 2020	Member, IEEE James H. Mulligan, Jr. Education Medal Committee

Editorial Board member of IEEE Signal Processing Magazine, IEEE Journal of Selected Topics in Signal Processing, Journal of Computer Speech and Language, and the Journal of Speech Communication. Guest Editor of many special issues of IEEE journals. (Past and present)

5. Research Interests

Analysis of speaker characterization information in speech waves and its application to speaker recognition as well as inter-speaker normalization and adaptation in speech recognition; vector-quantization-based speech recognition algorithm; spectral dynamic features for speech recognition; speech recognition algorithms that are robust against noise and distortion; algorithms for Japanese large-vocabulary continuous-speech recognition; automatic speech summarization algorithms; multimodal human-computer interaction systems; automatic question-answering systems; and analysis of the speech perception mechanism. He has authored or coauthored over 1,000 published articles.

6. Selected Publications in Books and Refereed Journals

Books

- 1. S. Furui, "Digital Speech Processing, Synthesis, and Recognition", Marcel Dekker (1989, revised in 2000)
- 2. S. Furui and M. M. Sondhi (Ed.), "Advances in Speech Signal Processing", Marcel Dekker (1992)
- 3. S. Furui, "Digital Speech Processing", Tokai University Press (1985) (in Japanese)
- 4. S. Furui, "Acoustics and Speech Processing", Kindai-Kagaku-Sha (1992, revised in 2006) (in Japanese)
- 5. S. Furui, "Speech Information Processing", Morikita (1998) (in Japanese)
- 6. S. Furui and Y. Sakai, "Image and Speech Processing Technology", Denpa-Shinbun-Sha (2004) (in Japanese)
- 7. S. Furui, "Creating computers to converse with human", Kadokawa (2009) (in Japanese)

Refereed Journals and Book Chapters Written in English

- Sadaoki Furui, Fumitada Itakura and Shuzo Saito, "Talker Recognition by Longtime Averaged Speech Spectrum", Electronics and Communication in Japan, Vol. 55-A, No.10, pp. 54-61, 1972
- Sadaoki Furui, Fumitada Itakura and Shuzo Saito, "Effect of Long-term Variations on Talker Recognition by Averaged Speech Spectrum", J. Acoustical Society of Japan, Vol. 28, No. 8, pp. 414-415, 1972
- 3. Sadaoki Furui and Fumitada Itakura, "Talker Recognition by Statistical Features of Speech Sounds", Electronics and Communication in Japan, Vol. 56-A, No. 11, pp. 62-71, 1973
- 4. Sadaoki Furui, "An Analysis of Long-term Variation of Feature Parameters of Speech and its Application to Talker Recognition", Electronics and Communication in Japan, Vol.

- 57-A, No. 12, pp. 34-42, 1974
- Sadaoki Furui, "A Training Procedure for Isolated Word Recognition Systems", IEEE Transactions on Acoustic, Speech and Signal Processing, Vol. ASSP-28, No. 2, pp. 129-136, 1980
- Sadaoki Furui, "Cepstral Analysis Technique for Automatic Speaker Verification", IEEE Transactions, Vol. ASSP-29, No. 2, pp. 254-272, 1981
- Sadaoki Furui, "Comparison of Speaker Recognition Methods Using Statistical Features and Dynamic Features", IEEE Transactions on Acoustic, Speech and Signal Processing, Vol. ASSP-29, No. 3, pp. 342-350, 1981
- 8. Noboru Sugamura and Sadaoki Furui, "Isolated Word Recognition Using Strings of Phoneme-Like Templates (SPLIT)", J. Acoust. Soc. Jpn. Vol. 5, No. 4, pp. 243-252, 1984
- Sadaoki Furui, "Speaker Independent Isolated Word Recognition Using Dynamic Features of Speech Spectrum", IEEE Transactions on Acoustic, Speech and Signal Processing, Vol. ASSP-34, No. 1, pp. 52-59, 1986
- 10. Sadaoki Furui, "Research on Individuality Features in Speech Waves and Automatic Speaker Recognition Techniques", Speech Communication, Vol. 5, pp. 183-197, 1986
- 11. Sadaoki Furui, "On the role of Spectral Transition for Speech Perception", J. Acoust. Soc. Am Vol. 80, No. 4, pp. 1016-1025, 1986
- 12. Sadaoki Furui, "Speaker-Independent Isolated Word Recognition Based on Dynamics-Emphasized Cepstrum", The Transactions of the IECE of Japan, Vol. E69, No. 12, pp. 1310-1317, 1986
- 13. Sadaoki Furui, "A VQ-Based Preprocessor Using Cepstral Dynamic Features for Speaker-Independent Large Vocabulary Word Recognition", IEEE Transactions on acoustic, speech and signal processing, Vol. 36, No. 7, pp. 980-987, 1988
- Sadaoki Furui, "Unsupervised Speaker Adaptation Based on Hierarchical Spectral Clustering", IEEE Transactions on acoustic, speech and signal processing, Vol. 37, No. 12, pp.1923-1930 1989
- 15. Sadaoki Furui, "Speaker Dependent Feature Extraction, Recognition and Processing Techniques", Speech Communication, Vol. 10, pp. 505-520, 1991
- Sadaoki Furui, "Speech Recognition Using VQ-Codebooks Representing Hierarchical Spectral Dynamics", Electronics and Communications in Japan, Part 3, Vol. 74, No. 7, pp. 105-114, 1991
- 17. Shoichi Matsunaga, Shigeru Homma, Shigeki Sagayama and Sadaoki Furui, "Continuous Speech Recognition Using a Dependency Grammar and Phoneme-Based HMMS", IEEE Transactions ASSP, Vol. E74, No.7, pp.1826-1833, 1991
- 18. Sadaoki Furui, "Recent Advances in Speech Recognition Technology at NTT Laboratories", Speech Communication, Vol. 11, pp. 195-204, 1992
- Fikret S. Gurgen, Shigeki Sagayama and Sadaoki Furui, "A Study of Line Spectrum Pair Frequency Representation for Speech Recognition", IEICE Trans. Fundamentals, Vol. E75-A, No.1 pp. 98-102, 1992
- Tomoko Matsui and Sadaoki Furui, "Comparison of Text-Independent Speaker Recognition Methods Using VQ-Distortion and Discrete/Continuous HMMS", IEEE Transactions on Speech and Audio Processing, 1994

- 21. Kiyohiro Shikano, Tomokazu Yamada, Takeshi Kawabata, Shoichi Matsunaga, Toshiyuki Hanazawa and Sadaoki Furui, "Dictation Machine Based on Japanese Charakter Source Modeling", International Journal of Pattern Recognition and Artificial Intelligence, Vol. 8, No. 1, pp. 181-196, 1994
- 22. Tomoko Matsui and Sadaoki Furui, "Likelihood Normalization for Speaker Verification Using a Phoneme- and Speaker-Independent Model", Speech Communication, Vol. 17, pp. 109-116, 1995
- 23. Junichi Takahashi, Noboru Sugamura, Tomohisa Hirokawa, Shigeki Sagayama and Sadaoki Furui, "Interactive Voice Technology Development for Telecommunications Applications", Speech Communication, Vol. 17, pp. 287-301, 1995
- 24. Yasuhiro Minami, Kiyohiro Shikano, Satoshi Takahashi, Tomokazu Yamada, Osamu Yoshioka and Sadaoki Furui, "Large-Vocabulary Continuous Speech Recognition Algorithm Applied to a Multi-Modal Telephone Directory Assistance System", Vol. 15, pp. 301-310, Speech Communication, 1995
- 25. Tomoko Matsui, Tomohito Kannno and Sadaoki Furui, "Speaker Recognition Using HMM Composition in Noisy Environments", Computer Speech and Language, Vol. 10, pp. 107-116, 1996
- 26. Sadaoki Furui, "Recent Advances in Speaker Recognition", Pattern Recognition Letters, Vol. 18, pp. 859-872, 1997
- 27. Sadaoki Furui, "The Past, Present, and Future of Speech Processing", IEEE Signal Processing Magazine, pp. 24-48, 1998
- 28. Tomoko Matsui and Sadaoki Furui, "N-Best-Based Unsupervised Speaker Adaptation for Speech Recognition", Computer Speech and Language, Vol. 12, pp .41-50, 1998
- Katsutoshi Ohtsuki, Tatsuo Matsuoka, Takeshi Mori, Kotaro Yoshida, Yuichi Taguchi, Sadaoki Furui and Katsuhiko Shirai, "Japanese Large-Vocabulary Continuous-Speech Recognition Using A Newspaper Corpus And Broadcast News", Speech Communication, Vol. 28, pp. 155-166, 1999
- 30. Toru Imai, Yohei Saito, Akio Ando and Sadaoki Furui, "A Language Model for Recognition of Continuous Uttered Sentences", J. Acoust, Soc, JPN, (E)21, 2(2000), pp. 111-113, 2000
- 31. Biing-Hwang Juang, and Sadaoki Furui, "Automatic Recognition and Understanding of Spoken Language –A First Step Toward Natural Human-Machine Communication", IEEE Vol. 88, No. 8, pp. 1142-1165, 2000
- 32. William J.J. Roberts and Sadaoki Furui, "Maximum Likelihood Estimation of K-Distribution Parameters via the Expectation-Maximization Algorithm", IEEE Transaction on Signal Processing, Vol. 48, No. 12, pp. 3303-3306, 2000
- 33. Zhipeng Zhang, Sadaoki Furui and Katsutoshi Ohtsuki, "On-Line Incremental Speaker Adaptation For Broadcast News Transcription", Speech Communications, Vol. 37, pp. 271-281, 2002
- 34. Katsutoshi Ohtsuki, Tatsuo Matsuoka, Shoichi Matsunaga, and Sadaoki Furui, "Topic Extraction Based on Continuous Speech Recognition in Broadcast News Speech", IEICE TRANS INF & SYST, Vol. E85-D, No. 7, pp. 1138-1144, 2002
- 35. Sadaoki Furui, "Toward Spontaneous Speech Recognition and Understanding", Pattern

- Recognition in Speech and Language Processing, Wu Chou, Biing Hwang Juang (Eds.), pp. 191-227, 2003
- 36. Sadaoki Furui, "Toward Robust Speech recognition and Understanding", Proc.TSD2003, [Springer-Verlag], V.Matousek, P.Mautner (Eds.) pp. 2-11, 2003
- 37. Chiori Hori, Sadaoki Furui, Rob Malkin, Hua Yu and Alex Waibel, "A Statistical Approach to Automatic Speech Summarization", EURASIP Journal on Applied Signal Processing, pp. 128-139, 2003
- 38. Chiori Hori, and Sadaoki Furui, "A New Approach to Automatic Speech Summarization", IEEE Transaction on Multimedia, Vol. 5, No. 3, pp. 368-378, 2003
- 39. Sadaoki Furui, Daisuke Itoh and Zhipeng Zhang, "Neural-Network-Based on HMM for Noisy Speech Recognition", Acoust. Sci. & Tech. Vol.24, 2, pp. 69-75, 2003
- 40. Chiori Hori and Sadaoki Furui, "Speech Summarization: An Approach through Word Extraction and a Method for Evaluation", IEICE TRANS. INF & SYST, Vol. E87-D, No. 1, pp.15-25, 2004
- 41. Sadaoki Furui, Tomonori Kikuchi, Yousuke Shinnaka and Chiori Hori, "Speech-to-Text and Speech-to-Speech Summarization of Spontaneous Speech", IEEE Transactions on Speech and Audio Processing, Vol. 12, No. 4, pp. 401-408, 2004
- 42. Zhioeng Zhang and Sadaoki Furui, "Piecewise-Linear Transformation Based HMM Adaptation for Noisy Speech", Speech Communication, Vol. 42, pp. 43-58, 2004
- 43. Koji Iwano, Takahiro Seki, and Sadaoki Furui, "Noise Robust Speech Recognition Using F₀ Contour Information", IEICE Transactions on Inf. & Syst., Vol.E-87-D, No.5, pp.1102-1109, 2004
- 44. Takahiro Shinozaki and Sadaoki Furui, "Dynamic Bayesian Network-Based Acoustic Model Incorporating Speaking Rate Effects", IEICE Transactions on Inf. & Syst., Vol.E-87-D, No .10, pp. 2339-2347, 2004
- 45. Mate Szarvas and Sadaoki Furui, "Phonology and Morphology Modeling in a very Large Vocabulary Hungarian Dictation System", IEICE Transactions on Information and Systems, Vol. E87-D, No. 12, pp. 2791-2800, 2004
- 46. Satoshi Tamura, Koji Iwano and Sadaoki Furui, "Multi-Modal Speech Recognition Using Optical-Flow Analysis for Lip Images", Journal of VLSI Signal Processing 36, pp. 117-124, 2004
- 47. Koji Iwano, Masahiro Yamada, Taro Togawa and Sadaoki Furui, "Prosody Control for HMM-Based Japanese TTS", Text to Speech Synthesis New Paradigms and Advances -, Shrikanth Narayanan and Abeer Alwan (Eds.), Prentice Hall PTR, New Jersey, ISBN 0-13-145661-X, pp. 155-173, 2004
- 48. Sadaoki Furui, "Speech Recognition Technology in Multimodal/Ubiquitous Computing Environments", Spoken Multimodal Human-Computer Dialogue in Mobile Environments [Springer-Verlag], ISBN 1-4020-3073-8, W.Minker, D. Bühler and L. Dybkjær (eds.), pp. 13-36, 2005
- 49. Sadaoki Furui, "Recent Progress in Corpus-Based Spontaneous Speech Recognition", IEICE Transactions on Information and Systems, Vol.E88-D, No.3, pp. 366-375, 2005
- 50. Sadaoki Furui, "Automatic Speaker Recognition and Verification", Encyclopedia of Language and Linguistics [Keith Brown Elsevier], ISBN 0-08-044299-4, 2nd Ed., pp.

- 619-629, 2005
- 51. Koji Iwano, Takahiro Seki and Sadaoki Furui, "Noise Robust Speech Recognition Using Prosodic Information", DSP for In-Vehicle and Mobile Systems [Springer-Verlag], H. Abut, J.H.L. Hansen and K. Takeda (Eds.), pp. 139-152, 2005
- 52. Satoshi Tamura, Koji Iwano and Sadaoki Furui, "A Robust Multimodal Speech Recognition Method Using Optical Flow Analysis", Spoken Multimodal Human-Computer Dialogue in Mobile Environments [Springer-Verlag], W. Minker, D. Bühler and L. Dybkjær (eds.). pp. 13-36, 2005
- 53. Satoshi Tamura, Koji Iwano and Sadaoki Furui, "A Robust Multimodal Speech Recognition Method Using Optical Flow Analysis", Spoken Multimodal Human-Computer Dialogue in Mobile Environments [Springer-Verlag], W.Minker, D. Bühler and L. Dybkjær (eds.). pp. 37-53, 2005
- 54. Jen-Tzung Chien and Sadaoki Furui, "Predictive Hidden Markov Model Selection for Speech Recognition", IEEE Transactions on speech and audio processing, Vol.13, No.4, pp.377-387, 2005
- 55. Koji Iwano, Taro Miyazaki and Sadaoki Furui, "Multimodal Speaker Verification Using Ear Image Features Extracted by PCA and ICA", Audio- and Video-Based Biometric Person Authentication [Springer-Verlag], ISBN 3-540-27887-7, Takeo Kanade, Anil Jain, Nalini K. Ratha (Eds.). pp. 588-596, 2005
- 56. Sadaoki Furui, Masanobu Nakamura, Tomohisa Ichiba and Koji Iwano, "Analysis and Recognition of Spontaneous Speech Using Corpus of Spontaneous Japanese", Speech Communication, Vol.47, pp.208-219, 2005
- 57. Zhipeng Zhang, Toshiaki Sugimura and Sadaoki Furui, "Tree-Structured Clustering Methods for Piecewise Linear-Transformation-Based Noise Adaptation", IEICE Transactions on Information and Systems, Vol.E88-D, No.9, pp.2168-2176, 2005
- 58. Sadaoki Furui, "Automatic Speaker Recognition and Verification", Encyclopedia of Language and Linguistics, 2nd Ed., Edited by Keith Brown, Elsevier: Oxford, pp. 619-629, 2006 (ISBN 0-08-044299-4)
- 59. Chai Wutiwiwatchai and Sadaoki Furui, "A Multi-Stage Approach for Thai Spoken Language Understanding", Speech Communication, Vol.48, iss.3-4, pp. 305-320, 2006
- 60. Makoto Hirohata, Yousuke Shinnaka, Koji Iwano and Sadaoki Furui, "Sentence-extractive Automatic Speech Summarization and Evaluation Techniques", Speech Communication, Vol. 48, iss.9, pp. 1151-1161, 2006
- 61. Nguyen Huu Bach, Koichi Shinoda and Sadaoki Furui, "Robust Scene Extraction Using Multi-Stream HMMs for Baseball Broadcast", IEICE Transactions on Information and Systems, Vol. E89-D, No. 9, pp. 2553-2561, 2006
- 62. Sadaoki Furui, "Speech Analysis", J. Webster (ed.), *Wiley Encyclopedia of Electrical and Electronics Engineering*. Copyright, 1999 John Wiley & Sons, Inc., pp. 111-125, 2006
- 63. Javier Latorre, Koji Iwano and Sadaoki Furui, "New Approach to the Polyglot Speech Generation by Means of an HMM-Based Speaker Adaptable Synthesizer", Speech Communication, Vol. 48, iss. 10, pp. 1227-1242, 2006
- 64. Sadaoki Furui, "Speech-Based Interfaces", Text Entry Systems: Mobility, Accessibility, Universality, I. Scott MacKenzie and Kumiko Tanaka-Ishii(Eds.), Morgan Kaufmann

- Publishers, San Francisco, ISBN 0-12-373591-2, pp.159-173, 2007
- 65. Koji Iwano, Tomoaki Yoshinaga, Satoshi Tamura, and Sadaoki Furui, "Audio-visual speech recognition using lip information extracted from side-face images", EURASIP Journal on Audio, Speech, and Music Processing, Vol. 2007, Article ID 64506, 9 pages, doi:10.1155/2007/64506, 2007
- 66. Sadaoki Furui, "Speech and Speaker Recognition Evaluation", Evaluation of Text and Speech Systems, L. Dybkiaer et al (Eds.) Springer, pp. 1-27, 2007
- 67. Agnieszka Betkowska, Koichi Shinoda, and Sadaoki Furui, "Robust Speech Recognition Using Factorial HMMs for Home Environments", EURASIP Journal on Advances in Signal Processing Vol. 2007, Article ID 20593, 9pages doi:10.1155/2007/20593, 2007
- 68. Chai Wutiwiwatchai and Sadaoki Furui, "Thai speech processing technology: a review", Speech Communication, Vol.49.iss.1, pp8-27, 2007
- Edward Whittaker, Josef Novak, Pierre Chatain, Paul Dixon, Matthias Heie, Sadaoki Furui,
 "CLEF2006 Question Answering Experiments at Tokyo Institute of Technology", C. Peter
 et al. (Eds.): CLEF 2006, LNCS 4730, pp.351-361, 2007 Springer -Verlag Berlin
 Heidelberg 2007
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- 73. Taichi Aasami, Koji Iwano and Sadaoki Furui, "Evaluation of a Noise-Robust Multi-Stream Speaker Verification Method Using F₀ Information", IEICE TRANS INF. & SYST., Vol. E91-D, No.3, pp549-557, 2008
- 74. Sadaoki Furui and Tatsuya Kawahara, "Transcription and Distillation of Spontaneous Speech", Benesty, Sondhi, Huang (Eds.), Springer Handbook of Speech Processing, Springer, pp. 627-651, 2008
- 75. Markpong Jongtaveesataporn, Issara Thienlikit, Chai Wutiwiwatchai and Sadaoki Furui, "Lexical Units for Thai LVCSR", Speech Communication, Vol. 51, pp. 369-389, 2009
- 76. Paul R.Dixon, Tasuku Oonishi and Sadaoki Furui, "Harnessing Graphics Processors for the Fast Computation of Acoustic Likelihoods in Speech Recognition", Computer Speech and Language, Vol. 23, pp.510-526, 2009
- 77. Nazrul Effendy, Koichi Shinoda, Sadaoki Furui and Somchai Jitapunkul⁻ "Automatic Recognition of Indonesian Declarative Questions and Statements Using Polynomial Coefficients of the Pitch Contours", Acoust. Sci. & Tech., Vol. 30, pp.249-256, 2009
- 78. Sadaoki Furui, "Speaker Recognition in Smart Environments", Human-Centric Interfaces for Ambient Intelligence, Academic Press, ISBN 978-0-12-374708-2 pp.163-184, 2009

- Takahiro Shinozaki, Sadaoki Furui and Tatsuya Kawahara, "Gaussian Mixture Optimization Based on Efficient Cross-Validation", IEEE Journal of Selected Topics in Signal Processing, Vol.4, No.3, pp.540-547, 2010
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- 81. Dessi Puji Lestari and Sadaoki Furui, "Adaptation to Pronunciation Variation in Indonesian Spoken Query-Based Information Retrieval", IEICE Trans. Inf. & Syst., Vol.E93-D, No.9, pp. 2388-2396, 2010
- 82. Dong Yang, Paul Dixon and Sadaoki Furui, "A New Hybrid Method for Machine Transliteration", IEICE Trans. Inf.&Syst., Vol.E93-D, No.12, pp.3377-3383, 2010
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- 87. Agnieszka Betkowska Cavalcante, Koichi Shinoda and Sadaoki Furui, "Robust Speech Recognition in the Car Environment", LTC 2009, LNAI 6562, Springer, pp. 24-34, 2011.
- 88. Yuzo Hamanaka, Koichi Shinoda, Takuya Tsutaoka, Sadaoki Furui, Tadashi Emori and Takafumi Koshinaka, "Committee-Based Active Learning for Speech Recognition", IEICE Trans. Inf. & Syst, Vol. E94-D, No. 10, pp. 2015-2023, 2011.
- 89. Takahiro Shinozaki, Toshinao Iwaki, Shiqiao Du, Masakazu Sekijima and Sadaoki Furui, "Distance-Based Factor Graph Linearization and Sampled Max-Sum Algorithm for Efficient 3D Potential Decoding of Macromolecules", IPSJ Trans. Bioinformatics. Vol. 4. pp. 34-44, 2011.
- 90. Muhammad Rasyid Aqmar, Koichi Shinoda and Sadaoki Furui, "Robust Gait-Based Person Identification against Walking Speed Variations", IEICE Trans. Inf. & Syst, Vol. E95-D, No. 2, pp. 668-676, 2012.
- 91. Sadaoki Furui, "Selected Topics from LVCSR Research for Asian Languages at Tokyo Tech", IEICE Trans. Inf. & Syst, Vol. E95-D, No. 5, pp. 1182-1194, 2012.
- 92. Matthias H. Heie, Edward W. D. Whittaker and Sadaoki Furui, "Question Answering Using Statistical Language Modelling", Computer Speech and Language, Vol. 26, pp. 193-209, 2012.
- 93. Hiroko Murakami, Koichi Shinoda and Sadaoki Furui, "Active Learning Using Phone-Error Distribution for Speech Modeling", IEICE Trans. Inf. & Syst, Vol. E95-D, No. 10, pp. 2486-2494, 2012.
- 94. Dong Yang, Yi-Cheng Pan and Sadaoki Furui, "Vocabulary Expansion through Automatic

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