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Education

2005–2008: Ph.D. student, Audio Media Processing Group, Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University

2003–2005: Master student, Audio Media Processing Group, Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University

1999–2003: Undergraduate student, Undergraduate School of Informatics and Mathematical Science, Faculty of Engineering, Kyoto University

Job Experience

2024–now: Professor, Spatio-Temporal Sensing Lab, Department of Electrical Engineering, Graduate School of Engineering, Kyoto University

2018–2024: Associate Professor, Speech and Audio Processing Group, Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University

2017–2025: Team Director (conjunction), Sound Scene Understanding Team, Center for Advanced Intelligence Project (AIP), RIKEN

2014–2018: Senior Lecturer, Speech and Audio Processing Group, Department of Intelligence Science and Technology, Graduate School of Informatics, Kyoto University

2013–2014: Senior Researcher, Media Interaction Research Group, Information Technology Research Institute (ITRI), National Institute of Advanced Industrial Science and Technology (AIST)

2008–2013: Research Scientist, Media Interaction Research Group, Information Technology Research Institute (ITRI), National Institute of Advanced Industrial Science and Technology (AIST)

Academic Experience

2014–now: Program Committee Member, International Society for Music Information Retrieval Conference (ISMIR)

2023: Demonstration Chair, IEEE Workshop on Applications of Signal Processing to Audio and

Acoustics (WASPAA)

2019–2023: Technical Committee Member, Audio and Acoustic Signal Processing (AASP), Signal Processing Society (SPS), IEEE

2020–2023: Area Chair, Music Information Retrieval and Music Language Processing, IEEE International Conference on Acoustics, Speech, & Signal Processing (ICASSP)

2009: Publication Chair, International Society for Music Information Retrieval Conference (ISMIR)

Review Experience

1. IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP), since 2008.
2. IEEE Journal of Selected Topics in Signal Processing, since 2018.
3. IEEE Signal Processing Letters (SPL), since 2012.
4. EURASIP Journal on Audio, Speech, and Music Processing (JASMP), since 2017.
5. APSIPA Transactions on Signal and Information Processing (A-TSIP), since 2019.
6. APSIPA Annual Summit and Conference (APSIPA ASC), since 2018.
7. EURASIP European Signal Processing Conference (EUSIPCO), since 2015.
8. IEEE International Conference on Acoustics, Speech, & Signal Processing (ICASSP), since 2008.
9. International Society for Music Information Retrieval Conference (ISMIR), since 2008.
10. Other conferences (WASPAA, SMC, NIPS, ICML, AAI, IROS, and ICRA) related to music information processing, audio signal processing, and machine learning

Publications

Journal papers

1. Tsung-Ping Chen and [Kazuyoshi Yoshii](#), “Joint Music Segmentation and Clustering Based on Self-Attentive Contrastive Learning of Multifaceted Self-Similarity Representation”, IEEE/ACM Transactions on Audio, Speech, and Language Processing, Vol. 33, pp. 1267–1277, 2025.
2. Keitaro Tanaka, [Kazuyoshi Yoshii](#), Simon Dixon, and Shigeo Morishima, “Unsupervised Pitch-Timbre-Variation Disentanglement of Monophonic Music Signals Based on Random Perturbation and Re-entry Training”, APSIPA Transactions on Signal and Information Processing, Vol. 14, No. 1, pp. 1–35, 2025.
3. Tengyu Deng, Eita Nakamura, Ryo Nishikimi, and [Kazuyoshi Yoshii](#), “End-to-End Singing Transcription Based on CTC and HSMM Decoding with a Refined Score Representation”, APSIPA Transactions on Signal and Information Processing, Vol. 13, No. 5, pp. 1–26, 2024.
4. Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, Mathieu Fontaine, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Autoregressive Moving Average Jointly-Diagonalizable Spatial Covariance Analysis for Joint Source Separation and Dereverberation”, IEEE/ACM Transactions on Audio, Speech, and Language Processing, Vol. 30, pp. 2368–2382, 2022.
5. Yiming Wu and [Kazuyoshi Yoshii](#), “Joint Chord and Key Estimation Based on a Hierarchical Variational Autoencoder with Multi-Task Learning”, APSIPA Transactions on Signal and

Information Processing, Vol. 11, No. 1, pp. 1–27, 2022.

6. Mathieu Fontaine, Kouhei Sekiguchi, Aditya Arie Nugraha, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “Generalized Fast Multichannel Nonnegative Matrix Factorization Based on Gaussian Scale Mixtures for Blind Source Separation”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 30, pp. 1734–1748, 2022.
7. Yicheng Du, Robin Scheibler, Masahito Togami, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Computationally-Efficient Overdetermined Blind Source Separation Based on Iterative Source Steering”, *IEEE Signal Processing Letters*, Vol. 29, pp. 927–931, 2021.
8. Yoshiaki Bando, Kouhei Sekiguchi, Yoshiki Masuyama, Aditya Arie Nugraha, Mathieu Fontaine, and [Kazuyoshi Yoshii](#), “Neural Full-Rank Spatial Covariance Analysis for Blind Source Separation”, *IEEE Signal Processing Letters*, Vol. 28, pp. 1670–1674, 2021.
9. Ryoto Ishizuka, Ryo Nishikimi, and [Kazuyoshi Yoshii](#), “Global Structure-Aware Drum Transcription Based on Self-Attention Mechanisms”, *Signals*, Vol. 2, No. 3, pp. 508–526, 2021.
10. Pasrawin Taechawattananant, [Kazuyoshi Yoshii](#), and Yasushi Ishihama, “Peak Identification and Quantification by Proteomic Mass Spectrogram Decomposition”, *Journal of Proteome Research*, Vol. 20, No. 5, pp. 2291–2298, 2021.
11. Kentaro Shibata, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Non-Local Musical Statistics as Guides for Audio-to-Score Piano Transcription”, *Information Sciences*, Vol. 566, pp. 262–280, 2021.
12. Takayuki Nakatsuka, [Kazuyoshi Yoshii](#), Yuki Koyama, Satoru Fukayama, Masataka Goto, and Shigeo Morishima, “MirrorNet: A Deep Reflective Approach to 2D Pose Estimation for Single-Person Images”, *Journal of Information Processing*, Vol. 29, pp. 406–423, 2021.
13. Eita Nakamura and [Kazuyoshi Yoshii](#), “Musical Rhythm Transcription Based on Bayesian Piece-Specific Score Models Capturing Repetitions”, *Information Sciences*, Vol. 572, pp. 482–500, 2021.
14. Ryo Nishikimi, Eita Nakamura, Masataka Goto, and [Kazuyoshi Yoshii](#), “Audio-to-Score Singing Transcription Based on a CRNN-HSMM Hybrid Model”, *APSIPA Transactions on Signal and Information Processing*, Vol. 10, No. e7, pp. 1–13, 2021.
15. Aditya Arie Nugraha, Kouhei Sekiguchi, Mathieu Fontaine, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “Flow-Based Independent Vector Analysis for Blind Source Separation”, *IEEE Signal Processing Letters*, Vol. 27, pp. 2173–2177, 2020.
16. Yiming Wu, Tristan Carsault, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Semi-supervised Neural Chord Estimation Based on a Variational Autoencoder with Latent Chord Labels and Features”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 28, pp. 2956–2966, 2020.
17. Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Fast Multichannel Nonnegative Matrix Factorization with Directivity-Aware Jointly-Diagonalizable Spatial Covariance Matrices for Blind Source Separation”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 28, pp. 2610–2625, 2020.
18. Ryo Nishikimi, Eita Nakamura, Masataka Goto, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Bayesian Singing Transcription Based on a Hierarchical Generative Model of Keys, Musical Notes, and Fo Trajectories”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 28, pp. 1678–1691, 2020.
19. Hiroaki Tsushima, Eita Nakamura, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Bayesian Melody Harmonization Based on a Tree-Structured Generative Model of Chord Sequences and Melodies”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 28, pp. 1644–1655, 2020.

20. Aditya Arie Nugraha, Kouhei Sekiguchi, and [Kazuyoshi Yoshii](#), “A Flow-Based Deep Latent Variable Model for Speech Spectrogram Modeling and Enhancement”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 28, pp. 1104–1117, 2020.
21. Eita Nakamura, Yasuyuki Saito, and [Kazuyoshi Yoshii](#), “Statistical Learning and Estimation of Piano Fingering”, *Information Sciences*, Vol. 517, pp. 68–85, 2020.
22. Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Semi-supervised Multichannel Speech Enhancement with a Deep Speech Prior”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Accepted, 2019.
23. Kazuki Shimada, Yoshiaki Bando, Masato Mimura, Katsutoshi Itoyama, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Unsupervised Speech Enhancement Based on Multichannel NMF-Informed Beamforming for Noise-Robust Speech Recognition”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 27, No. 5, pp. 960–971, 2019.
24. Yuta Ojima, Eita Nakamura, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Chord-Aware Automatic Music Transcription Based on Hierarchical Bayesian Integration of Acoustic and Language Models”, *APSIPA Transactions on Signal and Information Processing*, Vol. 7, No. e14, pp. 1–14, 2018.
25. Eita Nakamura and [Kazuyoshi Yoshii](#), “Statistical Piano Reduction Controlling Performance Difficulty”, *APSIPA Transactions on Signal and Information Processing*, Vol. 7, No. e13, pp. 1–12, 2018.
26. Hiroaki Tsushima, Eita Nakamura, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Generative Statistical Models with Self-Emergent Grammar of Chord Sequences”, *Journal of New Music Research*, pp. 1–23, 2018.
27. Kousuke Itakura, Yoshiaki Bando, Eita Nakamura, Katsutoshi Itoyama, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Bayesian Multichannel Audio Source Separation Based on Integrated Source and Spatial Models”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 26, No. 4, pp. 831–846, 2018.
28. Yoshiaki Bando, Katsutoshi Itoyama, Masashi Konyo, Satoshi Tadokoro, Kazuhiro Nakadai, and [Kazuyoshi Yoshii](#), Tatsuya Kawahara, Hiroshi G. Okuno, “Speech Enhancement Based on Bayesian Low-Rank and Sparse Decomposition of Multichannel Magnitude Spectrograms”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 26, No. 2, pp. 215–230 2018.
29. Eita Nakamura, [Kazuyoshi Yoshii](#), and Simon Dixon, “Note Value Recognition for Rhythm Transcription Using a Markov Random Field Model for Musical Scores and Performances of Piano Music”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 25, No.9, pp. 1846–1858, 2017.
30. Eita Nakamura, [Kazuyoshi Yoshii](#), and Shigeki Sagayama, “Rhythm Transcription of Polyphonic Music Based on Merged-Output HMM for Multiple Voices”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 25, No. 4, pp. 794–806, 2017.
31. Karim Youssef, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Simultaneous Identification and Localization of Immobile and Moving Speakers Based on Binaural Sound Acquisition”, *Journal of Robotics and Mechatronics*, Vol. 29, No. 1, pp. 59–71, 2017.
32. Misato Ohkita, Yoshiaki Bando, Yukara Ikemiya, Eita Nakamura, Katsutoshi Itoyama, and [Kazuyoshi Yoshii](#), “Audio-Visual Beat Tracking Based on a State-Space Model for a Robot Dancer Performing with a Human Dancer”, *Journal of Robotics and Mechatronics*, Vol. 29, No. 1, pp. 125–136, 2017.

33. Kouhei Sekiguchi, Yoshiaki Bando, Katsutoshi Itoyama, and Kazuyoshi Yoshii, “Layout Optimization of Cooperative Distributed Microphone Arrays Based on Estimation of Source Separation Performance”, *Journal of Robotics and Mechatronics*, Vol. 29, No. 1, pp. 83–93, 2017.
34. Yoshiaki Bando, Hiroshi Saruwatari, Nobutaka Ono, Shoji Makino, Katsutoshi Itoyama, Daichi Kitamura, Masaru Ishimura, Moe Takakusaki, Narumi Mae, Kouei Yamaoka, Yutaro Matsui, Yuichi Ambe, Masashi Konyo, Satoshi Tadokoro, Kazuyoshi Yoshii, and Hiroshi G. Okuno, “Low-Latency and High-Quality Two-Stage Human-Voice-Enhancement System for a Hose-Shaped Rescue Robot”, *Journal of Robotics and Mechatronics*, Vol. 29, No. 1, pp. 198–212, 2017.
35. Yukara Ikemiya, Katsutoshi Itoyama, and Kazuyoshi Yoshii, “Singing Voice Separation and Vocal Formant Estimation Based on Mutual Combination of Robust Principal Component Analysis and Subharmonic Summation”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 24, No. 11, pp. 2084–2095, 2016.
36. Tomoyasu Nakano, Kazuyoshi Yoshii, and Masataka Goto, “Musical Similarity and Commonness Estimation Based on Probabilistic Generative Models”, *International Journal of Semantic Computing*, Vol. 10, No. 1, pp. 27–52, 2016.
37. Izaya Nishimuta, Katsutoshi Itoyama, Kazuyoshi Yoshii, and Hiroshi G. Okuno, “Toward a Quizmaster Robot for Speech-Based Multiparty Interaction”, *Advanced Robotics*, Vol. 29, No. 18, pp. 1205–1219, 2015.
38. Akira Maezawa, Katsutoshi Itoyama, Kazuyoshi Yoshii, and Hiroshi G. Okuno, “Nonparametric Bayesian Dereverberation of Power Spectrograms Based on Infinite-Order Autoregressive Processes”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 22, No. 12, pp. 1918–1930, 2014.
39. Matthew E. P. Davies, Philippe Hamel, Kazuyoshi Yoshii, and Masataka Goto, “AutoMashUpper: Automatic Creation of Multi-Song Music Mashups”, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, Vol. 22, No. 12, pp. 1726–1737, 2014.
40. Kazuyoshi Yoshii and Masataka Goto, “A Nonparametric Bayesian Multipitch Analyzer Based on Infinite Latent Harmonic Allocation”, *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 20, No. 3, pp. 717–730, 2012.
41. Kazuyoshi Yoshii, Masataka Goto, Kazunori Komatani, Tetsuya Ogata, and Hiroshi G. Okuno, “An Efficient Hybrid Music Recommender System Using an Incrementally Trainable Probabilistic Generative Model,” *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 16, No. 2, pp. 435–447, 2008.
42. Kazuyoshi Yoshii, Masataka Goto, Kazunori Komatani, Tetsuya Ogata, and Hiroshi G. Okuno, “Drumix: An Audio Player with Real-Time Drum-Part Rearrangement Functions for Active Music Listening”, *IPSJ Digital Courier*, Vol. 3, pp. 134–144, 2007.
43. Kazuyoshi Yoshii, Masataka Goto, and Hiroshi G. Okuno, “Drum Sound Recognition for Polyphonic Audio Signals by Adaptation and Matching of Spectrogram Templates with Harmonic Structure Suppression”, *IEEE Transactions on Audio, Speech and Language Processing*, Vol. 15, No. 1, pp. 333–345, 2007.

Conference papers

44. Tsung-Ping Chen and Kazuyoshi Yoshii, “Learning Multifaceted Self-Similarity over Time and Frequency for Music Structure Analysis”, *International Society for Music Information Retrieval*

Conference (ISMIR 2024), pp. 189–197, November 2024.

45. Weixing Wei, Jiahao Zhao, Yulun Wu, and [Kazuyoshi Yoshii](#), "Streaming Piano Transcription Based on Consistent Onset and Offset Decoding with Sustain Pedal Detection", International Society for Music Information Retrieval Conference (ISMIR 2024), pp. 906–913, November 2024.
46. Yoshiaki Sumura, Diego Di Carlo, Aditya Arie Nugraha, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), "Joint Audio Source Localization and Separation With Distributed Microphone Arrays Based on Spatially-Regularized Multichannel NMF", IEEE International Workshop on Acoustic Signal Enhancement (IWAENC 2024), pp. 145–149, September 2024.
47. Liam Kelley, Diego Di Carlo, Aditya Arie Nugraha, Mathieu Fontaine, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), "RIR-in-a-Box: Estimating Room Acoustics from 3D Mesh Data through Shoebox Approximation", Annual Conference of the International Speech Communication Association (Interspeech 2024), pp. 3255–3259, September 2024.
48. Diego Di Carlo, Aditya Arie Nugraha, Mathieu Fontaine, Yoshiaki Bando, and Kazuyoshi Yoshii, "Neural Steerer: Novel Steering Vector Synthesis with a Causal Neural Field over Frequency and Direction", International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW 2024), pp. 740–744, April 2024.
49. Takuto Nabeoka, Eita Nakamura, and [Kazuyoshi Yoshii](#), "Automatic Orchestration of Piano Scores for Wind Bands with User-Specified Instrumentation", International Symposium on Computer Music Multidisciplinary Research (CMMR 2023), pp. 387–394, November 2023.
50. Daichi Kamakura, Eita Nakamura, Takehisa Oyama, and [Kazuyoshi Yoshii](#), "Joint Drum Transcription and Metrical Analysis Based on Periodicity-Aware Multi-Task Learning", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 151–157, October 2023.
51. Daichi Kamakura, Eita Nakamura, and [Kazuyoshi Yoshii](#), "CTC2: End-to-End Drum Transcription Based on Connectionist Temporal Classification With Constant Tempo Constraint", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 158–164, October 2023.
52. Tsung-Ping Chen, Li Su, and [Kazuyoshi Yoshii](#), "Learning Multifaceted Self-Similarity for Musical Structure Analysis", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 165–172, October 2023.
53. Tengyu Deng, Eita Nakamura, and [Kazuyoshi Yoshii](#), "Audio-to-Score Singing Transcription Based on Joint Estimation of Pitches, Onsets, and Metrical Positions With Tatum-Level CTC Loss", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 583–590, October 2023.
54. Jiahao Zhao and [Kazuyoshi Yoshii](#), "Multimodal Multifaceted Music Emotion Recognition Based on Self-Attentive Fusion of Psychology-Inspired Symbolic and Acoustic Features", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 1641–1645, October 2023.
55. Yoto Fujita, Yoshiaki Bando, Keisuke Imoto, Masaki Onishi, and [Kazuyoshi Yoshii](#), "DOA-Aware Audio-Visual Self-Supervised Learning for Sound Event Localization and Detection", Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), pp. 2061–2067, October 2023.
56. Aditya Arie Nugraha, Diego Di Carlo, Yoshiaki Bando, Mathieu Fontaine, and [Kazuyoshi Yoshii](#),

- “Time-Domain Audio Source Separation Based on Gaussian Processes with Deep Kernel Learning”, IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA 2023), pp. 1–5, October 2023.
57. Yoshiaki Bando, Yoshiki Masuyama, Aditya Arie Nugraha, and [Kazuyoshi Yoshii](#), “Neural Fast Full-Rank Spatial Covariance Analysis for Blind Source Separation”, European Signal Processing Conference (EUSIPCO 2023), pp. 51–55, September 2023.
 58. Moyu Terao, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Neural Band-to-Piano Score Arrangement with Stepless Difficulty Control”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023), pp. 1–5, June 2023.
 59. Tengyu Deng, Eita Nakamura, and [Kazuyoshi Yoshii](#), “End-to-End Lyrics Transcription Informed by Pitch and Onset Estimation”, International Society for Music Information Retrieval Conference (ISMIR 2022), pp. 633–639, December 2022.
 60. Florian Thalmann, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Tracking the Evolution of a Band's Performances over Decades”, International Society for Music Information Retrieval Conference (ISMIR 2022), pp. 850–857, December 2022.
 61. Kouhei Sekiguchi, Aditya Arie Nugraha, Yicheng Du, Yoshiaki Bando, Mathieu Fontaine, and [Kazuyoshi Yoshii](#), “Direction-Aware Adaptive Online Neural Speech Enhancement with an Augmented Reality Headset in Real Noisy Conversational Environments”, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2022), pp. 9266–9273, October 2022.
 62. Yicheng Du, Aditya Arie Nugraha, Kouhei Sekiguchi, Yoshiaki Bando, Mathieu Fontaine, and [Kazuyoshi Yoshii](#), “Direction-Aware Joint Adaptation of Neural Speech Enhancement and Recognition in Real Multiparty Conversational Environments”, Annual Conference of the International Speech Communication Association (Interspeech 2022), pp. 2918–2922, September 2022.
 63. Aditya Arie Nugraha, Kouhei Sekiguchi, Mathieu Fontaine, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “DNN-Free Low-Latency Adaptive Speech Enhancement Based on Frame-Online Beamforming Powered by Block-Online FastMNMF”, IEEE International Workshop on Acoustic Signal Enhancement (IWAENC 2022), pp. 1–5, September 2022.
 64. Yoshiaki Sumura, Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, and [Kazuyoshi Yoshii](#), “Joint Localization and Synchronization of Distributed Camera-Attached Microphone Arrays for Indoor Scene Analysis”, IEEE International Workshop on Acoustic Signal Enhancement (IWAENC 2022), pp. 1–5, September 2022.
 65. Mathieu Fontaine, Diego Di Carlo, Kouhei Sekiguchi, Aditya Arie Nugraha, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “Elliptically Contoured Alpha-Stable Representation for MUSIC-Based Sound Source Localization”, European Signal Processing Conference (EUSIPCO 2022), pp. 26–30, August 2022.
 66. Moyu Terao, Yuki Hiramatsu, Ryoto Ishizuka, Yiming Wu, and [Kazuyoshi Yoshii](#), “Difficulty-Aware Neural Band-to-Piano Score Arrangement Based on Note- and Statistic-Level Criteria”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2022), pp. 196–200, May 2022.
 67. Aditya Arie Nugraha, Kouhei Sekiguchi, Mathieu Fontaine, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “Flow-Based Fast Multichannel Nonnegative Matrix Factorization for Blind Source Separation”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2022), pp.

501–505, May 2022.

68. Takehisa Oyama, Ryoto Ishizuka, and [Kazuyoshi Yoshii](#), “Phase-Aware Joint Beat and Downbeat Estimation Based on Periodicity of Metrical Structure”, International Society for Music Information Retrieval Conference (ISMIR 2021), pp. 493–499, November 2021.
69. Yuki Hiramatsu, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Joint Estimation of Note Values and Voices for Audio-to-Score Piano Transcription”, International Society for Music Information Retrieval Conference (ISMIR 2021), pp. 278–284, November 2021.
70. Mathieu Fontaine, Kouhei Sekiguchi, Aditya Arie Nugraha, Yoshiaki Bando, and [Kazuyoshi Yoshii](#), “Alpha-Stable Autoregressive Fast Multichannel Nonnegative Matrix Factorization for Joint Speech Enhancement and Dereverberation”, Annual Conference of the International Speech Communication Association (Interspeech 2021), pp. 601–665, August 2021.
71. Yoshiaki Bando, Kouhei Sekiguchi, and [Kazuyoshi Yoshii](#), “Gamma Process FastMNMF for Separating an Unknown Number of Sound Sources”, European Signal Processing Conference (EUSIPCO 2021), Accepted, August 2021.
72. Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, Mathieu Fontaine, and [Kazuyoshi Yoshii](#), “Autoregressive Fast Multichannel Nonnegative Matrix Factorization for Joint Blind Source Separation and Dereverberation”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2021), pp. 511–515, June 2021.
73. Yuki Hiramatsu, Go Shibata, Ryo Nishikimi, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Statistical Correction of Transcribed Melody Notes Based on Probabilistic Integration of a Music Language Model and a Transcription Error Model”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2021), pp. 256–260, June 2021.
74. Keitaro Tanaka, Ryo Nishikimi, Yoshiaki Bando, [Kazuyoshi Yoshii](#), and Shigeo Morishima, “Pitch-Timbre Disentanglement of Musical Instrument Sounds Based on VAE-Based Metric Learning”, IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2021), pp. 111–115, June 2021.
75. [Kazuyoshi Yoshii](#), Kouhei Sekiguchi, Yoshiaki Bando, Mathieu Fontaine, and Aditya Arie Nugraha, “Fast Multichannel Correlated Tensor Factorization for Blind Source Separation”, European Signal Processing Conference (EUSIPCO 2021), pp. 306–310, January 2021.
76. Yicheng Du, Kouhei Sekiguchi, Yoshiaki Bando, Aditya Arie Nugraha, Mathieu Fontaine, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Semi-supervised Multichannel Speech Separation Based on a Phone- and Speaker-Aware Deep Generative Model of Speech Spectrograms”, European Signal Processing Conference (EUSIPCO 2021), pp. 870–874, January 2021.
77. Ryoto Ishizuka, Ryo Nishikimi, Eita Nakamura, and [Kazuyoshi Yoshii](#), “Tatum-Level Drum Transcription Based on a Convolutional Recurrent Neural Network with Language Model-Based Regularized Training”, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2020), pp. 359–364, December 2020.
78. Yiming Wu, Eita Nakamura, and [Kazuyoshi Yoshii](#), “A Variational Autoencoder for Joint Chord and Key Estimation from Audio Chromagrams”, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2020), pp. 500–506, December 2020.
79. Masaya Wake, Masahito Togami, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Integration of Semi-blind Speech Source Separation and Voice Activity Detection for Flexible Spoken Dialogue”, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA

ASC 2020), pp. 775–780, December 2020.

80. Masahito Togami, Yoshiki Masuyama, Tatsuya Komatsu, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “Computer-Resource-Aware Deep Speech Separation with a Run-Time-Specified Number of BLSTM Layers”, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2020), pp. 788–793, December 2020.
81. Jeongwoo Woo, Masato Mimura, [Kazuyoshi Yoshii](#), and Tatsuya Kawahara, “End-to-End Music-Mixed Speech Recognition”, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2020), pp. 800–804, December 2020.
82. Yoshiaki Bando, Kouhei Sekiguchi, and [Kazuyoshi Yoshii](#), “Adaptive Neural Speech Enhancement with a Denoising Variational Autoencoder”, Annual Conference of the International Speech Communication Association (Interspeech 2020), pp. 2437–2441, October 2020.
83. Mathieu Fontaine, Kouhei Sekiguchi, Aditya Arie Nugraha, and [Kazuyoshi Yoshii](#), “Unsupervised Robust Speech Enhancement Based on Alpha-Stable Fast Multichannel Nonnegative Matrix Factorization”, Annual Conference of the International Speech Communication Association (Interspeech 2020), pp. 4541–4545, October 2020.
84. Go Shibata, Ryo Nishikimi, and [Kazuyoshi Yoshii](#), “Music Structure Analysis Based on an LSTM-HSMM Hybrid Model”, International Society for Music Information Retrieval Conference (ISMIR 2020), pp. 15–22, October 2020.
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Awards

1. Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2023), Best Paper Award, 2023/11/3.
2. IEEE International Conference on Robot and Human Interactive Communication (ROMAN 2019), Best Conference Paper Award, 2019/10/17.
3. IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR 2015), Most Innovative Paper Award, 2015/10/19.
4. IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR 2015), People's Choice Demo Award, 2015/10/19.
5. The 10th Annual Music Information Retrieval Evaluation eXchange (MIREX 2014), Winner of the Singing Voice Separation Track, 2014/10/14.
6. The 14th International Society for Music Information Retrieval Conference (ISMIR 2013) Best Oral Presentation Award, 2013/11/7.
7. Award for Entertainment Robots and Systems (IROS 2008 NTF Award) Nomination Finalist, 2008/9/24.
8. Award for Entertainment Robots and Systems (IROS 2008 NTF Award) Nomination Finalist, 2008/9/24.
9. The 1st Annual Music Information Retrieval Evaluation eXchange (MIREX 2005), Winner of the Audio Drum Detection Track (Best-in-Class Award), 2005/9/14.