

Daichi KITAMURA

PERSONAL DATA

PLACE AND DATE OF BIRTH: Japan | 11th March 1990
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RESEARCH INTERESTS

Audio signal processing, statistical signal processing, machine learning, acoustic engineering, optimization

EDUCATIONAL BACKGROUND

MAR 2017 Ph.D. degree in Informatics, School of Multidisciplinary Sciences, Department of Informatics, **SOKENDAI (The Graduate University for Advanced Studies)**, Japan
MAR 2014 M.S. degree in Engineering, Graduate school of Information Science, **Nara Institute of Science and Technology (NAIST)**, Japan
MAR 2012 B.S. degree in Engineering, Advanced Course in Industrial and Systems Engineering, **Kagawa National Collage of Technology (KNCT)**, Japan
MAR 2010 Foundation degree of Engineering, Department of Electrical and Computer Engineering, **Kagawa National Collage of Technology (KNCT)**, Japan

RESEARCH & WORK EXPERIENCES

APR 2017–Current	Project Research Associate of DEPARTMENT OF INFORMATION PHYSICS AND COMPUTING, GRADUATE SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY, THE UNIVERSITY OF TOKYO, Japan System #1 Laboratory (Saruwatari Lab.)
APR 2017–SEP 2017	Part-Time Lecturer of DEPARTMENT OF HUMAN ENVIRONMENT DESIGN, FACULTY OF HUMAN LIFE DESIGN, TOYO UNIVERSITY, Japan Lecture: Information Literacy I
APR 2014–MAR 2017	Research Fellow (DC1) of JAPAN SOCIETY OF THE PROMOTION OF SCIENCE (JSPS), Japan Theme: “Multidimensional Sound Media Processing and Its Application to Sound Augmented Reality Based on Sparse Signal Decomposition”
MAY 2015–FEB 2017	Research Assistant with Superordinate Wages of RESEARCH ORGANIZATION OF INFORMATION AND SYSTEMS (ROIS), Japan Recognized as a super research assistant who has expert knowledge in his/her research.
MAY 2014–APR 2015	Research Assistant of RESEARCH ORGANIZATION OF INFORMATION AND SYSTEMS (ROIS), Japan Recognized as a general research assistant.
JUN–AUG 2013	Teaching Assistant of GRADUATE SCHOOL OF INFORMATION SCIENCE, NARA INSTITUTE OF SCIENCE AND TECHNOLOGY (NAIST), Japan Lecture: <i>Speech Processing</i>

VOLUNTEER WORKS

- JUL 2017–Current | Organizing Committee of 16TH INTERNATIONAL WORKSHOP ON ACOUSTIC SIGNAL ENHANCEMENT (IWAENC 2018), Japan
Local Arrangement
- MAR 2014–Current | Students and Young Researchers Forum of THE ACOUSTICAL SOCIETY OF JAPAN (ASJ), Japan
Recognized as an official organization of ASJ.
- JAN 2016–FEB 2017 | Evaluation Organizing Committee Member of SIXTH COMMUNITY-BASED SIGNAL SEPARATION EVALUATION CAMPAIGN (SiSEC 2016)
SiSEC 2016 is an international competition for signal separation and was jointly held with LVA/ICA 2017.
- SEP 2014–SEP 2015 | Evaluation Organizing Committee Member of FIFTH COMMUNITY-BASED SIGNAL SEPARATION EVALUATION CAMPAIGN (SiSEC 2015)
SiSEC 2015 is an international competition for signal separation and was jointly held with LVA/ICA 2015.

AWARDS

- NOV 2017 | The Telecom System Technology Award (Encouragement Award), THE TELECOMMUNICATION ADVANCEMENT FOUNDATION (TAF)
- NOV 2017 | The 13th Itakura Prize Innovative Young Researcher Award, THE ACOUSTICAL SOCIETY OF JAPAN (ASJ)
- NOV 2017 | Best Paper Award, IEEE SIGNAL PROCESSING SOCIETY (SPS) JAPAN
- SEP 2017 | FY2016 22nd Nagakura Research Incentive Award, SOKENDAI (THE GRADUATE UNIVERSITY FOR ADVANCED STUDIES)
- JUL 2017 | 21st Annual Best of Computing Notable Books and Articles in Computing of 2016, ACM COMPUTING REVIEWS
- JAN 2017 | Seventh (FY2016) Ikushi Prize, JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS)
- MAR 2016 | The Telecom System Technology Student Award, THE TELECOMMUNICATION ADVANCEMENT FOUNDATION (TAF)
- NOV 2015 | Student Conference Paper Award, IEEE SIGNAL PROCESSING SOCIETY (SPS) JAPAN CHAPTER
- SEP 2015 | 2015 The 1st Best Student Award, NATIONAL INSTITUTE OF INFORMATICS (NII)
- MAR 2015 | The 37th Awaya Prize Young Researcher Award, THE ACOUSTICAL SOCIETY OF JAPAN (ASJ)
- NOV 2014 | 2013 Technical Group on Signal Processing Young Researcher's Award, THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS (IEICE)
- MAY 2014 | Total Exemption from Repayment of Scholarship Loan for Students with Outstanding Results, JAPAN STUDENT SERVICES ORGANIZATION (JASSO)
- MAR 2014 | Master's Best Student Award, NARA INSTITUTE OF SCIENCE AND TECHNOLOGY (NAIST)
- MAR 2014 | NCSP'14 Student Paper Award, 2014 RISP INTERNATIONAL WORKSHOP ON NONLINEAR CIRCUITS, COMMUNICATIONS AND SIGNAL PROCESSING (NCSP 2014)
- NOV 2013 | The 8th Student Presentation Award, THE ACOUSTICAL SOCIETY OF JAPAN (ASJ)
- MAR 2010 | The Best Graduation Research Award, DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING, TAKAMATSU NATIONAL COLLEGE OF TECHNOLOGY (TNCT)
- MAR 2010 | Engineers Encouragement Award, THE SHIKOKU SECTION OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS (IEICE)

COMPETITIVE FUNDS

- AUG 2017 JSPS Grant-in-Aid for Research Activity start-up (KAKENHI), "Extended theories of audio source separation based on statistical independence and various mathematical structures (Grant No. 17H06572)", JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE (JSPS)
- JUN 2015 Grants for Researchers Attending International Conferences, THE TELECOMMUNICATIONS ADVANCEMENT FOUNDATION (TAF)
- MAY 2014 Grant-in-Aid for JSPS Fellows, JAPAN SOCIETY OF THE PROMOTION OF SCIENCE (JSPS)
- APR 2014 Research Fellowship for Young Scientists (DC1), JAPAN SOCIETY OF THE PROMOTION OF SCIENCE (JSPS)
- APR 2013 Grants for Researchers Attending International Conferences, NEC C&C FOUNDATION

LANGUAGES

JAPANESE: Native
ENGLISH: Conversant

COMPUTER SKILLS

Programming: C, C++, MATLAB
Web Design: HTML, CSS
Other: L^AT_EX, Excel, Word, PowerPoint, IGOR

PUBLICATIONS

Book Chapters

1. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Sawada, Hirokazu Kameoka, and Hiroshi Saruwatari, "Determined blind source separation with independent low-rank matrix analysis," *Audio Source Separation. Signals and Communication Technology.*, Shoji Makino, Ed. Springer, Cham, pp. 125-155, March 2018.
2. **Daichi Kitamura**, "Q11 What is beamforming?," *Acousticpedia for Beginners*, Acoustical Society of Japan, Eds. Corona Publishing, pp. 44-47, March 2017 (in Japanese).

Journal Papers

1. Yoshiaki Bando, Hiroshi Saruwatari, Nobutaka Ono, Shoji Makino, Katustoshi 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, February 2017.
2. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Sawada, Hirokazu Kameoka, and Hiroshi Saruwatari, "Determined blind source separation unifying independent vector analysis and nonnegative matrix factorization," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 24, no. 9, pp. 1626-1641, September, 2016.
3. **Daichi Kitamura**, Hiroshi Saruwatari, Hirokazu Kameoka, Yu Takahashi, Kazunobu Kondo, and Satoshi Nakamura, "Multichannel signal separation combining directional clustering and nonnegative matrix factorization with spectrogram restoration," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 23, no. 4, pp. 654-669, April 2015.
4. Tomo Miyauchi, **Daichi Kitamura**, Hiroshi Saruwatari, and Satoshi Nakamura, "Depth estimation of sound images using directional clustering and activation-shared nonnegative matrix factorization," *Journal of Signal Processing*, vol. 18, no. 4, pp. 217-220, July 2014 (corresponding author).
5. **Daichi Kitamura**, Hiroshi Saruwatari, Kosuke Yagi, Kiyohiro Shikano, Yu Takahashi, and Kazunobu Kondo, "Music signal separation based on supervised nonnegative matrix factorization with orthogonality and maximum-divergence penalties," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E97-A, no. 5, pp. 1113-1118, May 2014.

6. Masahiro Harazono, **Daichi Kitamura**, and Masashi Nakayama, "Humbucking pickup response excited by string vibration," *Acoustical Science and Technology*, vol. 33, no. 5, pp. 301-309, 2012.

Peer-Reviewed International Conference Proceedings

1. Kohei Yatabe and **Daichi Kitamura**, "Determined blind source separation via proximal splitting algorithm," *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018)*, Calgary, Canada, April, 2018 (accepted).
2. Yoshiki Mitsui, Norihiro Takamune, **Daichi Kitamura**, Hiroshi Saruwatari, Yu Takahashi, and Kazunobu Kondo, "Vectorwise coordinate descent algorithm for spatially regularized independent low-rank matrix analysis," *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018)*, Calgary, Canada, April, 2018 (accepted).
3. Narumi Mae, Yoshiki Mitsui, Shoji Makino, **Daichi Kitamura**, Nobutaka Ono, Takeshi Yamada, and Hiroshi Saruwatari, "Sound source localization using binaural different for hose-shaped rescue robot," *Proceedings of Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2017)*, Kuala Lumpur, Malaysia, December, 2017 (accepted).
4. Yoshiki Mitsui, **Daichi Kitamura**, Norihiro Takamune, Hiroshi Saruwatari, Yu Takahashi, and Kazunobu Kondo, "Independent low-rank matrix analysis based on parametric majorization-equalization algorithm," *Proceedings of IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2017)*, Curaçao, Dutch Antilles, December, 2017 (accepted).
5. Sinichi Mogami, **Daichi Kitamura**, Yoshiki Mitsui, Norihiro Takamune, Hiroshi Saruwatari, and Nobutaka Ono, "Independent low-rank matrix analysis based on complex Student's t -distribution for blind audio source separation," *Proceedings of IEEE International Workshop on Machine Learning for Signal Processing (MLSP 2017)*, Tokyo, Japan, September, 2017 (accepted).
6. **Daichi Kitamura**, Nobutaka Ono, and Hiroshi Saruwatari, "Experimental analysis of optimal window length for independent low-rank matrix analysis," *Proceedings of The 2017 European Signal Processing Conference (EUSIPCO 2017)*, pp. 1210–1214, Kos, Greece, August 2017 (Invited Special Session).
7. Yoshiki Mitsui, **Daichi Kitamura**, Shinnosuke Takamichi, Nobutaka Ono, and Hiroshi Saruwatari, "Blind source separation based on independent low-rank matrix analysis with sparse regularization for time-series activity," *Proceedings of The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017)*, pp. 21–25, New Orleans, U.S.A., March, 2017 (Student Paper Contest Finalist).
8. Antoine Liutkus, Fabian-Robert Stöter, Zafar Rafii, **Daichi Kitamura**, Bertrand Rivet, Nobutaka Ito, Nobutaka Ono, and Julie Fontecave, "The 2016 signal separation evaluation campaign," *Proceedings of 13th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2017)*, pp. 323–332, Grenoble, France, February, 2017.
9. Narumi Mae, Masaru Ishimura, **Daichi Kitamura**, Nobutaka Ono, Takeshi Yamada, Shoji Makino, and Hiroshi Saruwatari, "Ego noise reduction for hose-shaped rescue robot combining independent low-rank matrix analysis and multichannel noise cancellation," *Proceedings of 13th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2017)*, pp. 141–151, Grenoble, France, February, 2017.
10. Narumi Mae, **Daichi Kitamura**, Masaru Ishimura, Takeshi Yamada, and Shoji Makino, "Ego noise reduction for hose-shaped rescue robot combining independent low-rank matrix analysis and noise cancellation," *Proceedings of Asia-Pacific Signal and Information Process Processing Association Annual Summit and Conference (APSIPA ASC 2016)*, Jeju, Korea, December 2016.
11. Hiroaki Nakajima, **Daichi Kitamura**, Norihiro Takamune, Shoichi Koyama, Hiroshi Saruwatari, Yu Takahashi, and Kazunobu Kondo, "Audio signal separation using supervised NMF with time-variant all-pole-model-based basis deformation," *Proceedings of Asia-Pacific Signal and Information Process Processing Association Annual Summit and Conference (APSIPA ASC 2016)*, Jeju, Korea, December 2016.
12. **Daichi Kitamura** and Nobutaka Ono, "Efficient initialization for nonnegative matrix factorization based on nonnegative independent component analysis," *Proceedings of The 15th International Workshop on Acoustic Signal Enhancement (IWAENC 2016)*, Xi'an, China, September 2016 (Student Paper Competition Finalist).

13. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Saruwatari, Yu Takahashi, and Kazunobu Kondo, “Discriminative and reconstructive basis training for audio source separation with semi-supervised nonnegative matrix factorization,” *Proceedings of The 15th International Workshop on Acoustic Signal Enhancement (IWAENC 2016)*, Xi’an, China, September 2016.
14. Moe Takakusaki, **Daichi Kitamura**, Nobutaka Ono, Takeshi Yamada, Shoji Makino, and Hiroshi Saruwatari, “Ego-noise reduction for a hose-shaped rescue robot using determined rank-1 multichannel nonnegative matrix factorization,” *Proceedings of The 15th International Workshop on Acoustic Signal Enhancement (IWAENC 2016)*, Xi’an, China, September 2016.
15. Hiroaki Nakajima, **Daichi Kitamura**, Norihiro Takamune, Shoichi Koyama, Hiroshi Saruwatari, Nobutaka Ono, Yu Takahashi, and Kazunobu Kondo, “Music signal separation using supervised NMF with all-pole-model-based discriminative basis deformation,” *Proceedings of The 2016 European Signal Processing Conference (EUSIPCO 2016)*, pp. 1143–1147, Budapest, Hungary, September 2016.
16. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Sawada, Hirokazu Kameoka, and Hiroshi Saruwatari, “Relaxation of rank-1 spatial constraint in overdetermined blind source separation,” *Proceedings of The 2015 European Signal Processing Conference (EUSIPCO 2015)*, pp. 1271–1275, Nice, France, September 2015 (Invited Special Session).
17. Nobutaka Ono, Zafar Rafii, **Daichi Kitamura**, Nobutaka Ito, and Antoine Liutkus, “The 2015 signal separation evaluation campaign,” *Proceedings of 12th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA 2015)*, Liberec, Czech, August 2015.
18. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Sawada, Hirokazu Kameoka, and Hiroshi Saruwatari, “Efficient multichannel nonnegative matrix factorization exploiting rank-1 spatial model,” *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2015)*, pp. 276–280, Brisbane, Australia, April 2015.
19. Yuki Murota, **Daichi Kitamura**, Shoichi Koyama, Hiroshi Saruwatari, Satoshi Nakamura, “Statistical modeling of binaural signal and its application to binaural source separation,” *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2015)*, pp. 494–498, Brisbane, Australia, April 2015.
20. **Daichi Kitamura**, Hiroshi Saruwatari, Satoshi Nakamura, Yu Takahashi, Kazunobu Kondo, and Hirokazu Kameoka, “Hybrid multichannel signal separation using supervised nonnegative matrix factorization with spectrogram restoration,” *Proceedings of Asia-Pacific Signal and Information Processing Association Annual Summit and Conference 2014 (APSIPA 2014)*, Siem Reap, Cambodia, December 2014 (Invited Special Session).
21. **Daichi Kitamura**, Hiroshi Saruwatari, Satoshi Nakamura, Yu Takahashi, Kazunobu Kondo, and Hirokazu Kameoka, “Divergence optimization in nonnegative matrix factorization with spectrogram restoration for multichannel signal separation,” *Proceedings of 4th Joint Workshop on Hands-free Speech Communication and Microphone Arrays (HSCMA 2014)*, pp. 92–96, Nancy, France, May 2014.
22. Yuki Murota, **Daichi Kitamura**, Hiroshi Saruwatari, Satoshi Nakamura, Yu Takahashi, and Kazunobu Kondo, “Music signal separation based on Bayesian spectral amplitude estimator with automatic target prior adaptation,” *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2014)*, pp. 7540–7544, Frolence, Italy, May 2014.
23. **Daichi Kitamura**, Hiroshi Saruwatari, Satoshi Nakamura, Yu Takahashi, Kazunobu Kondo, and Hirokazu Kameoka, “Online divergence switching for superresolution-based nonnegative matrix factorization,” *Proceedings of 2014 RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing (NCSP 2014)*, pp. 485–488, Hawaii, USA, March 2014 (Student Paper Award).
24. Tomo Miyauchi, **Daichi Kitamura**, Hiroshi Saruwatari, and Satoshi Nakamura, “Depth estimation of sound images using directional clustering and activation-shared nonnegative matrix factorization,” *Proceedings of 2014 RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing (NCSP 2014)*, pp. 437–440, Hawaii, USA, March 2014 (Student Paper Award).
25. **Daichi Kitamura**, Hiroshi Saruwatari, Kosuke Yagi, Kiyohiro Shikano, Yu Takahashi, and Kazunobu Kondo, “Robust music signal separation based on supervised nonnegative matrix factorization with prevention of basis sharing,” *Proceedings of IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2013)*, pp. 392–397, Athens, Greece, December 2013.

26. **Daichi Kitamura**, Hiroshi Saruwatari, Kiyohiro Shikano, Kazunobu Kondo, and Yu Takahashi, "Music signal separation by supervised nonnegative matrix factorization with basis deformation," *Proceedings of IEEE 18th International Conference on Digital Signal Processing (DSP 2013)*, Santorini, Greece, July 2013.
27. **Daichi Kitamura**, Hiroshi Saruwatari, Yusuke Iwao, Kiyohiro Shikano, Kazunobu Kondo, and Yu Takahashi, "Superresolution-based stereo signal separation via supervised nonnegative matrix factorization," *Proceedings of IEEE 18th International Conference on Digital Signal Processing (DSP 2013)*, Santorini, Greece, July 2013.
28. **Daichi Kitamura**, Hiroshi Saruwatari, Kiyohiro Shikano, Kazunobu Kondo, and Yu Takahashi, "Regularized superresolution-based binaural signal separation with nonnegative matrix factorization," *Proceedings of 5th International Conference on 3D Systems and Applications (3DSA 2013)*, Osaka, Japan, June 2013.

PATENTS

1. **Daichi Kitamura**, Hiroaki Nakajima, Hiroshi Saruwatari, Nobutaka Ono, Yu Takahashi, Kazunobu Kondo, Japanese Unexamined Patent, Application No. 2016-032489 (submitted on February 23rd, 2016).
2. **Daichi Kitamura**, Hiroshi Saruwatari, and Yu Takahashi, Japanese Unexamined Patent, Application No. 2013-094475 (submitted on April 26th, 2013), and Publication No. 2014-215544 (published on November 17th, 2014).
3. **Daichi Kitamura**, Hiroshi Saruwatari, and Yu Takahashi, Japanese Unexamined Patent, Application No. 2013-004375 (submitted on January 15th, 2013), and Publication No. 2014-137389 (published on July 28th, 2014).

MISCELLANEOUS WORKS

1. **Daichi Kitamura**, "Dataset: songKitamura," *Dataset for Evaluation of Music Source Separation*, October 13th, 2017.
2. **Daichi Kitamura**, "Acoustic modeling in audio source separation," *The Acoustical Society of Japan, Summer Seminar, Invited Talk*, September 11th, 2017.
3. **Daichi Kitamura**, "Q. Why does a pickup affect on the tone of electric guitars?," *The Journal of the Acoustical Society of Japan (ASJ), Coffee Break, Q&A Corner*, vol. 73, no. 9, September, 2017 (in Japanese).
4. **Daichi Kitamura**, "Blind source separation based on independent low-rank matrix analysis and its extension to Student's t -distribution," *Télécom ParisTech, Invited Lecture*, September 4th, 2017.
5. **Daichi Kitamura**, "Audio source separation based on low-rank structure and statistical independence," *Nagoya University, Invited Lecture*, May 30th, 2017.
6. **Daichi Kitamura**, "Effective optimization algorithms for blind and supervised music source separation with nonnegative matrix factorization," *SOKENDAI (The Graduate University for Advanced Studies), Doctoral Dissertation*, March, 2017.
7. **Daichi Kitamura**, "History of independence-based blind source separation and independent low-rank matrix analysis," *The University of Tokyo, Department of Information Physics and Computing, Invited Talk*, Tokyo, February 27th, 2017.
8. **Daichi Kitamura**, "Blind source separation based on statistical independence and low-rank matrix decomposition -Independent low-rank matrix analysis-," *University of Tsukuba, Graduate School of Systems and Information Engineering, Multimedia Laboratory, Invited Talk*, Ibaraki, September 26th, 2016.
9. **Daichi Kitamura**, "Algorithms for independent low-rank matrix analysis," *Supporting document*, August, 2016.
10. **Daichi Kitamura**, "Blind source separation based on independent low-rank matrix analysis," *Speech PhD Summit 2016, Google inc. London, Invited Poster Presentation*, London, UK, Jun 15th, 2016.
11. **Daichi Kitamura**, Nobutaka Ono, "How can we listen only vocal or guitar sound from music? Mechanism in source separation and its capability," *2016 National Institute of Informatics (NII) Open House*, no. E02, Tokyo, May, 2016.

12. **Daichi Kitamura**, “History of independent component analysis for sound media signal processing and its applications,” *Hitotsubashi University, Graduate School of International Corporate Strategy, MBA Program in Financial Strategy, Faculty Seminar, Invited Talk*, Tokyo, February 8th, 2016.
13. **Daichi Kitamura**, “Sound media signal processing for music,” *7th Hokuriku Union Acoustic Seminar, Beginner’s Meeting, Invited Talk*, Kanagawa, December 13th, 2015.
14. **Daichi Kitamura**, “Generative model in nonnegative matrix factorization and its application to multichannel sound source separation,” *Keio University, Science and Technology, Department of Electronics and Electrical Engineering, Yukawa Laboratory, Invited Talk*, Kanagawa, November 24th, 2015.
15. **Daichi Kitamura**, Nobutaka Ono, Hiroshi Sawada, Hirokazu Kameoka, Hiroshi Saruwatari, “How can we listen only vocal or guitar sound from music? Music source separation using nonnegative matrix factorization,” *2015 National Institute of Informatics (NII) Open House*, no. E02, Tokyo, June, 2015.