Yuki SAITO（齋藤 佑樹）

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RESEARCH INTERESTS

Machine learning, signal processing, and speech synthesis

EDUCATIONAL BACKGROUNDS

Mar. 2018	M.S. degree in Information Science and Technology, Department of Creative Informatics, Graduate School of Information Science and Technology, The University of Tokyo. Japan
Mar. 2014	B.S. degree in Engineering, Advanced Course of Electronic and Information Systems Engineering, National Institute of Technology, Kushiro College, Japan
Mar. 2012	A.S. degree in Engineering, Department of Information Engineering, National Institute of Technology, Kushiro College, Japan

RESEARCH AND WORK EXPERIENCES

Apr. 2018—Mar. 2021	Research fellow (DC1) of Japan Society for the Promotion of Science, Japan
Aug. 2017—Oct. 2017	Short-time researcher in NTT Media Intelligence Laboratories, NTT Corporation, Japan
Aug. 2016—Sep. 2016	Short-time researcher in NTT Communication Science Laboratories, NTT Corporation, Japan

VOLUNTEER WORKS

Mar. 2017—Current	Students and Young Researchers Forum of The Acoustical Society of Japan (ASJ), Japan (an official organization of ASJ)

COMPETITIVE FUNDS

Apr. 2018	Grants for Researchers Attending International Conferences from NEC C&C

AWARDS

Nov. 2018	The 12th IEEE Signal Processing Society (SPS) Japan Student Journal Paper Award
Aug. 2018	The Information and Systems Society (ISS) Young Researcher's Award in Speech Field of The Institute of Electronics, Information and Communication Engineers (IEICE)
Mar. 2018	The 34th Telecom System Technology Student Award, The Telecommunication Advancement Foundation (TAF)
Nov. 2017	The 1st IEEE Signal Processing Society (SPS) Tokyo Joint Chapter Student Award

Mar. 2017	The 14th Best Student Presentation Award of Acoustical Society of Japan (ASJ)
Mar. 2017	Spoken Language Processing Student Grant Award of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
Jan. 2017	The Information and Science Society (ISS) Student Poster Award of the Institute of Electronics, Information and Communication Engineers (IEICE)
Feb. 2016	Graduation Research Award, Advanced Course of Electronic and Information Systems Engineering, National Institute of Technology, Kushiro College
Mar. 2014	Dean's Award, Department of Information Engineering, National Institute of Technology, Kushiro College

CO-AUTHOR'S AWARDS

| Jun. 2018 | Information Processing Society of Japan (IPSJ) Special Interest Group on Music and Computer (SIG-MUS) / Spoken Language Processing (SLP) Presentation Award (Awardee: Shinnosuke Takamichi) |

LANGUAGES

Japanese (native) and English (conversant)

COMPUTER SKILLS

Programming	Python, C, C#, C++, R, Java, JavaScript, Scheme, Matlab
Web design	Html, CSS
Other	LaTeX, Word, Excel, PowerPoint, Unity

PUBLICATIONS

Original Journal Papers

1. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Statistical parametric speech synthesis incorporating generative adversarial networks," IEEE/ACM Transactions on Audio, Speech, and Language Processing, vol. 26, no. 1, pp. 84—96, Jan. 2018. [the most popular article in Dec. 2017—Oct. 2018, The 34th Telecom System Technology Student Award, The Telecommunication Advancement Foundation (TAF), The 12th IEEE Signal Processing Society (SPS) Japan Student Journal Paper Award]

2. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Voice conversion using input-to-output highway networks," IEICE Transactions on Information and Systems, vol. E100-D, no. 8, pp. 1925—1928, Aug. 2017.

Peer-Reviewed International Conference Proceedings

1. Masakazu Une, **Yuki Saito**, Shinnosuke Takamichi, Daichi Kitamura, Ryoichi Miyazaki and Hiroshi Saruwatari, "Generative approach using the noise generation models for DNN-based speech synthesis trained from noisy speech," Proceedings of The 10th Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), pp.

99—103, Hawaii, U.S.A., Nov. 2018. [Invited Special Session]

2. Shinnosuke Takamichi, **Yuki Saito**, Norihiro Takamune, Daichi Kitamura, and Hiroshi Saruwatari, "Phase reconstruction from amplitude spectrograms based on von-Mises-distribution deep neural network," Proceedings of The 16th International Workshop on Acoustic Signal Enhancement (IWAENC), pp. 286—290, Tokyo, Japan, Sep. 2018.

3. **Yuki Saito**, Yusuke Ijima, Kyosuke Nishida, and Shinnosuke Takamichi, "Non-parallel voice conversion using variational autoencoders conditioned by phonetic posteriorgrams and d-vectors," Proceedings of The 43rd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 5274—5278, Alberta, Canada, Apr. 2018. [Grants for Researchers Attending International Conferences from NEC C&C]

4. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Text-to-speech synthesis using STFT spectra based on low-/multi-resolution generative adversarial networks," Proceedings of The 43rd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 5299—5303, Alberta, Canada, Apr. 2018.

5. Hiroyuki Miyoshi, **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Voice conversion using sequence-to-sequence learning of context posterior probabilities," Proceedings of The 18th INTERSPEECH, pp. 1268—1272, Stockholm, Sweden, Aug. 2017.

6. **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, "Training algorithm to deceive anti-spoofing verification for DNN-based speech synthesis," Proceedings of The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 4900—4904, New Orleans, U.S.A., Mar. 2017. [Spoken Language Processing Student Grant Award]

7. **Yuki Saito**, and Hiroshi Tenmoto, "Construction of highly interpretable classification rule based on linear SVM," Proceedings of The 4th International Symposium on Technology for Sustainability (ISTS), Taipei, Taiwan, Nov. 2014.