

Yuki SAITO

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RESEARCH INTERESTS

Machine learning, signal processing, and speech synthesis

EDUCATIONAL BACKGROUNDS

- 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 (accepted)
- 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)

AWARDS

- 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

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 and Jan. 2018, The 34th Telecom System Technology Student Award, The Telecommunication Advancement Foundation \(TAF\)](#)]
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. **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 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. xx—xx, Alberta, Canada, Apr. 2018. (accepted, SP-P6)
2. **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 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. xx—xx, Alberta, Canada, Apr. 2018. (accepted, SP-P6)
3. Hiroyuki Miyoshi, **Yuki Saito**, Shinnosuke Takamichi, and Hiroshi Saruwatari, “Voice conversion using sequence-to-sequence learning of context posterior probabilities,” *Proceedings of INTERSPEECH*, pp. 1268—1272, Stockholm, Sweden, Aug. 2017.
4. **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](#)]
5. **Yuki Saito**, and Hiroshi Tenmoto, “Construction of highly interpretable classification rule based on linear SVM,” *Proceedings of International Symposium on Technology for Sustainability (ISTS)*, Taipei, Taiwan, Nov. 2014.