

SEONG-GYUN LEEM

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EDUCATION

Ph.D. student in Electrical and Computer Engineering Aug 2020 - Now
The University of Texas at Dallas, Richardson, TX
Master's in Computer Science and Engineering Mar 2018 - Feb 2020
Korea University, Seoul, South Korea
Bachelor's in Computer Science and Engineering Mar 2012 - Feb 2018
Korea University, Seoul, South Korea

INDUSTRY EXPERIENCES

Advanced Technology Group, Dolby laboratories
San Francisco, CA, United States
Audio research intern May 2023 - Aug 2023
Description: develop controllable speech emotion conversion system with emotional attributes

PUBLICATIONS

- S. Leem**, D. Fulford, J.P. Onnela, D. Gard and C. Busso, “*Selective Acoustic Feature Enhancement for Speech Emotion Recognition with Noisy Speech*,” IEEE/ACM Transactions on Audio, Speech, and Language Processing, vol. to appear, 2023.
- A. Naini, S. Subramaniam, **S. Leem**, and C. Busso, “Combining relative and absolute learning formulations to predict emotional attributes from speech,” IEEE Automatic Speech Recognition and Understanding Workshop (ASRU 2023), Taipei, Taiwan, December 2023.
- L. Martinez-Lucas, A. Salman, **S. Leem**, S. Upadhyay, C. Lee and C. Busso, “*Analyzing the effect of affective priming on emotional annotations*,” in International Conference on Affective Computing and Intelligent Interaction (ACII 2023), Cambridge, MA, USA, September 2023.
- S. Leem**, D. Fulford, J.P. Onnela, D. Gard and C. Busso, “*Computation and memory efficient noise adaptation of Wav2Vec2.0 for noisy speech emotion recognition with skip connection adapters*,” in Interspeech 2023, Dublin, Ireland, August 2023, pp. 1888-1892.
- H. Chou, L. Goncalves, **S. Leem**, C. Lee and C. Busso, “*The importance of calibration: Rethinking confidence and performance of speech multi-label emotion classifiers*,” in Interspeech 2023, Dublin, Ireland, August 2023, vol. To appear.
- S. Leem**, D. Fulford, J.P. Onnela, D. Gard and C. Busso, “*Adapting a self-supervised speech representation for noisy speech emotion recognition by using contrastive teacher-student learning*,” in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2023), Rhodes Island, Greece, 2023.
- L. Goncalves, **S. Leem**, W. Lin, B. Sisman, and C. Busso “Versatile audiovisual learning for handling single and multi modalities in emotion regression and classification tasks,” ArXiv e-prints (arXiv:2305.07216), pp. 1-14, May 2023
- S. Leem**, D. Fulford, J.P. Onnela, D. Gard and C. Busso, “*Not All Features Are Equal: Selection of Robust Features for Speech Emotion Recognition in Noisy Environments*,” in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2022), Singapore, May 2022.
- J. Harvill, **S. Leem**, M. Abdelwahab, R. Lotfian and C. Busso, “*Quantifying Emotional Similarity in Speech*,” in IEEE Transactions on Affective Computing, doi: 10.1109/TAFFC.2021.3127390.
- S. Leem**, D. Fulford, J.P. Onnela, D. Gard and C. Busso, “*Separation of emotional and reconstruction embeddings on ladder network to improve speech emotion recognition robustness in noisy conditions*,” in Interspeech 2021, Brno, Czech Republic, August-September 2021.
- I. Yoo, K. Lee, **S. Leem**, H. Oh, B. Ko and D. Yook, “*Speaker Anonymization for Personal Information Protection Using Voice Conversion Techniques*.” IEEE Access 8 (2020): 198637-198645.
- D. Yook, **S. Leem**, K. Lee and I. Yoo, “*Many-to-Many Voice Conversion Using Cycle-Consistent Variational Autoencoder with Multiple Decoders*,” Proc. Odyssey 2020 The Speaker and Language Recognition Workshop, pp. 215-221, 2020.
- S. Leem**, I. Yoo and D. Yook, “*Multitask Learning of Deep Neural Network-Based Keyword Spotting for IoT Devices*,” IEEE Transactions on Consumer Electronics, vol. 65, no. 2, pp. 188-194, May 2019.

AWARDS

- Received *ECE Department Teaching Assistant Awards*, University of Texas at Dallas, in 2021.