**Conference**

1. Che-Ping Tsai, Hung-Yi Lee, Adversarial Learning of Label Dependency: A Novel Framework for Multi-class Classification", submitted to ICASSP 2019
2. Chia-Hung Wan, Shun-Po Chuang, Hung-Yi Lee, "Towards Audio to Scene Image Synthesis using Generative Adversarial Network", submitted to ICASSP 2019  [demo](https://wjohn1483.github.io/audio_to_scene/index.html)
3. Li-Wei Chen, Hung-Yi Lee, Yu Tsao, "Generative Adversarial Networks for Unpaired Voice Transformation on Impaired Speech", submitted to ICASSP 2019
4. Yen-Yu Chang, Jing-Cheng Chang, Hung-Yi Lee, "Noise-to-Noise Speech Enhancement: Speech Denoising without Clean Speech", submitted to ICASSP 2019
5. Chia-Hsuan Lee, Yun-Nung Chen, Hung-Yi Lee, "Mitigating the Impact of Speech Recognition Errors on Spoken Question Answering by Adversarial Domain Adaptation", submitted to ICASSP 2019
6. Ching-Ting Chang, Shun-Po Chuang, Hung-Yi Lee, "Code-switching Sentence Generation by Generative Adversarial Networks and its Application to Data Augmentation", submitted to ICASSP 2019
7. Tzu-Wei Sung, Jun-You Liu, Hung-yi Lee, Lin-shan Lee, "Towards End-to-end Speech-to-text Translation with Two-pass Decoding", submitted to ICASSP 2019
8. Alexander H. Liu, Hung-yi Lee, Lin-shan Lee, "Adversarial Training of End-to-end Speech Recognition Using a Criticizing Language Model", submitted to ICASSP 2019
9. Yi-Chen Chen, Chia-Hao Shen, Sung-Feng Huang, Hung-yi Lee, Lin-shan Lee, "Almost-unsupervised Speech Recognition with Close-to-zero Resource Based on Phonetic Structures Learned from Very Small Unpaired Speech and Text Data", submitted to ICASSP 2019
10. Sung-Feng Huang, Yi-Chen Chen, Hung-yi Lee, Lin-shan Lee, "Improved Audio Embeddings by Adjacency-Based Clustering with Applications in Spoken Term Detection", submitted to ICASSP 2019
11. Yau-Shian Wang, Hung-Yi Lee, "Learning to Encode Text as Human-Readable Summaries using Generative Adversarial Networks", EMNLP, 2018
12. Da-Rong Liu, Chi-Yu Yang, Szu-Lin Wu, Hung-Yi Lee, "Improving Unsupervised Style Transfer in End-to-End Speech Synthesis with End-to-End Speech Recognition", SLT, 2018
13. Chia-Hsuan Lee, Shang-Ming Wang, Huan-Cheng Chang, Hung-Yi Lee, "ODSQA: Open-domain Spoken Question Answering Dataset", SLT, 2018  [dataset](https://github.com/chiahsuan156/ODSQA)
14. Cheng-chieh Yeh, Po-chun Hsu, Ju-chieh Chou, Hung-yi Lee, Lin-shan Lee, "Rhythm-Flexible Voice Conversion without Parallel Data Using Cycle-GAN over Phoneme Posteriorgram Sequences", SLT, 2018
15. Yi-Chen Chen, Sung-Feng Huang, Chia-Hao Shen, Hung-yi Lee, Lin-shan Lee, "Phonetic-and-Semantic Embedding of Spoken Words with Applications in Spoken Content Retrieval", SLT, 2018
16. Chia-Hsuan Li, Szu-Lin Wu, Chi-Liang Liu, Hung-yi Lee, "Spoken SQuAD: A Study of Mitigating the Impact of Speech Recognition Errors on Listening Comprehension", INTERSPEECH, 2018  [dataset](https://github.com/chiahsuan156/Spoken-SQuAD)
17. Pei-Hung Chung, Kuan Tung, Ching-Lun Tai, Hung-Yi Lee, "Joint Learning of Interactive Spoken Content Retrieval and Trainable User Simulator", INTERSPEECH, 2018  (The paper won the best student paper award in INTERSPEECH 2018. Over 700 papers, from all over the world were considered. From there, the list was narrowed down to 12 and then 3, from which the best paper award was announced.)
18. Yi-Chen Chen, Chia-Hao Shen, Sung-Feng Huang, Hung-yi Lee, "Towards Unsupervised Automatic Speech Recognition Trained by Unaligned Speech and Text only", arXiv, 2018
19. Ju-chieh Chou, Cheng-chieh Yeh, Hung-yi Lee, Lin-shan Lee, "Multi-target Voice Conversion without Parallel Data by Adversarially Learning Disentangled Audio Representations", INTERSPEECH, 2018 (one of the 12 finalists for the best student paper award)
20. Da-Rong Liu, Kuan-Yu Chen, Hung-Yi Lee, Lin-shan Lee, "Completely Unsupervised Phoneme Recognition by Adversarially Learning Mapping Relationships from Audio Embeddings", INTERSPEECH, 2018
21. Chia-Hao Shen, Janet Y. Sung, Hung-Yi Lee, "Language Transfer of Audio Word2Vec: Learning Audio Segment Representations without Target Language Data", ICASSP, 2018
22. Chia-Wei Ao, Hung-yi Lee, "Query-by-example Spoken Term Detection using Attention-based Multi-hop Networks", ICASSP, 2018
23. Hsien-Chin Lin, Chi-Yu Yang, Hung-Yi Lee, Lin-Shan Lee, "Domain Independent Key Term Extraction from Spoken Content based on Context and Term Location Information", ICASSP, 2018
24. Chih-Wei Lee, Yau-Shian Wang, Tsung-Yuan Hsu, Kuan-Yu Chen, Hung-Yi Lee, Lin-Shan Lee, "Scalable Sentiment for Sequence-to-sequence Chatbot Response with Performance Analysis", ICASSP, 2018
25. Yu-Hsuan Wang, Hung-Yi Lee, Lin-Shan Lee, "Segmental Audio Word2vec: Representing Utterances as Sequences of Vectors with Applications in Spoken Term Detection", ICASSP, 2018
26. Yu-An Chung, Hung-Yi Lee, James Glass, "Supervised and Unsupervised Transfer Learning for Question Answering", NAACL, 2018  [code](https://github.com/iamyuanchung/TOEFL-QA)
27. Tzu-Chien Liu, Yu-Hsueh Wu, Hung-Yi Lee, "Query-based Attention CNN for Text Similarity Map", ICCV workshop, 2018  [code](https://github.com/chun5212021202/QACNN)
28. Yi-Lin Tuan, Jinzhi Zhang, Yujia Li, Hung-yi Lee, Proximal Policy Optimization and its Dynamic Version for Sequence Generation, arXiv, 2018
29. Pin-Jung Chen, I-Hung Hsu, Yi Yao Huang, Hung-Yi Lee, "Mitigating the Impact of Speech Recognition Errors on Chatbot using Sequence-to-sequence Model", the 12th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'17), Okinawa, Japan, December 2017
30. Shun Po Chuang, Chia-Hung Wan, Pang-Chi Huang, Chi-Yu Yang, Hung-Yi Lee, "Seeing and Hearing Too: Audio Representation for Video Captioning" the 12th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'17), Okinawa, Japan, December 2017
31. Zih-Wei Lin, Tzu-Wei Sung, Hung-Yi Lee, Lin-Shan Lee, "Personalized Word Representations Carrying Personalized Semantics Learned from Social Network Posts", the 12th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'17), Okinawa, Japan, December 2017
32. Tzu-Ray Su, Hung-Yi Lee, "Learning Chinese Word Representations From Glyphs Of Characters", Conference on Empirical Methods in Natural Language Processing (EMNLP), Copenhagen, Denmark, Sept. 2017
33. Yu-Hsuan Wang, Cheng-Tao Chung, Hung-yi Lee, "Gate Activation Signal Analysis for Gated Recurrent Neural Networks and Its Correlation with Phoneme Boundaries", the 18th Annual Conference of the International Speech Communication Association (INTERSPEECH'17), Stockholm, Sweden, August 2017
34. Bo-Ru Lu, Frank Shyu, Yun-Nung Chen, Hung-Yi Lee, Lin-Shan Lee, "Order-Preserving Abstractive Summarization for Spoken Content based on Connectionist Temporal Classification", the 18th Annual Conference of the International Speech Communication Association (INTERSPEECH'17), Stockholm, Sweden, August 2017
35. Wei-Jen Ko, Bo-Hsiang Tseng, Hung-yi Lee, "Recurrent Neural Network based Language Modeling with Controllable External Memory", the 42th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'17), New Orleans, March 2017
36. Cheng-Kuan Wei, Cheng-Tao Chung, Hung-yi Lee, Lin-Shan Lee, "Personalized Acoustic Modeling by Weakly Supervised Multi-task Deep Learning using Acoustic Tokens Discovered from Unlabeled Data", the 42th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'17), New Orleans, March 2017
37. Lang-Chi Yu, Hung-yi Lee, Lin-Shan Lee, “Abstractive Headline Generation for Spoken Content by Attentive Recurrent Neural Networks with ASR Error Modeling”, the 6th IEEE Workshop on Spoken Language Technology (SLT'16), San Diego, Dec. 2016
38. Wei Fang, Juei-Yang Hsu, Hung-yi Lee, Lin-Shan Lee, "Hierarchical Attention Model for Improved Machine Comprehension of Spoken Content", the 6th IEEE Workshop on Spoken Language Technology (SLT'16), San Diego, Dec. 2016 [code](https://github.com/sunprinceS/Hierarchical-Attention-Model)
39. Da-Rong Liu, Shun-Po Chuang, Hung-yi Lee, "Attention-based Memory Selection Recurrent Network for Language Modeling", arXiv preprint, November 2016
40. Bo-Hsiang Tseng, Sheng-syun Shen, Hung-Yi Lee, Lin-Shan Lee, "Towards Machine Comprehension of Spoken Content: Initial TOEFL Listening Comprehension Test by Machine", the 17th Annual Conference of the International Speech Communication Association (INTERSPEECH'16), San Francisco, Sept. 2016 (one of the 12 finalists for the best student paper award)
41. Yen-Chen Wu, Tzu-Hsiang Lin, Yang-De Chen, Hung-Yi Lee, Lin-Shan Lee, "Interactive Spoken Content Retrieval by Deep Reinforcement Learning", the 17th Annual Conference of the International Speech Communication Association (INTERSPEECH'16), San Francisco, Sept. 2016
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43. Sheng-syun Shen, Hung-Yi Lee, "Neural Attention Models for Sequence Classification: Analysis and Application to Key Term Extraction and Dialogue Act Detection", the 17th Annual Conference of the International Speech Communication Association (INTERSPEECH'16), San Francisco, Sept. 2016
44. Yi-Hsiu Liao, Hung-yi Lee, Lin-shan Lee, "Towards Structured Deep Neural Network for Automatic Speech Recognition", the 11th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'15), Arizona, December 2015
45. Bo-Hsiang Tseng, Hung-yi Lee, Lin-Shan Lee, "Personalizing Universal Recurrent Neural Network Language Model with User Characteristic Features by Social Network Crowdsourcing", the 11th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'15), Arizona, December 2015
46. Cheng-Tao Chung, Cheng-Yu Tsai, Hsiang-Hung Lu, Chia-Hsiang Liu, Hung-yi Lee, Lin-shan Lee, "An Iterative Deep Learning Framework for Unsupervised Discovery of Speech Features and Linguistic Units with Applications on Spoken Term Detection", the 11th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'15), Arizona, December 2015
47. Sheng-syun Shen, Hung-yi Lee, Shang-wen Li, Victor Zue and Lin-shan Lee, "Structuring Lectures in Massive Open Online Courses (MOOCs) for Efficient Learning by Linking Similar Sections and Predicting Prerequisites", the 16th Annual Conference of the International Speech Communication Association (INTERSPEECH'15), Dresden, Germany, Sept. 2015
48. Hung-tsung Lu, Yuan-ming Liou, Hung-yi Lee and Lin-shan Lee, "Semantic Retrieval of Personal Photos using a Deep Autoencoder Fusing Visual Features with Speech Annotations Represented as Word/Paragraph Vectors", the 16th Annual Conference of the International Speech Communication Association (INTERSPEECH'15), Dresden, Germany, Sept. 2015
49. Ching-Feng Yeh, Yuan-ming Liou, Hung-yi Lee and Lin-shan Lee, "Personalized Speech Recognizer with Keyword-based Personalized Lexicon and Language Model using Word Vector Representations", the 16th Annual Conference of the International Speech Communication Association (INTERSPEECH'15), Dresden, Germany, Sept. 2015
50. Hung-yi Lee, Yu Zhang, Ekapol Chuangsuwanich, James Glass, "Graph-based Re-ranking using Acoustic Feature Similarity between Search Results for Spoken Term Detection on Low-resource Languages", the 15th Annual Conference of the International Speech Communication Association (INTERSPEECH'14), Singapore, Sept. 2014
51. Han Lu, Sheng-syun Shen, Sz-Rung Shiang, Hung-yi Lee and Lin-shan Lee, "Alignment of Spoken Utterances with Slide Content for Easier Learning with Recorded Lectures using Structured Support Vector Machine (SVM)", the 15th Annual Conference of the International Speech Communication Association (INTERSPEECH'14), Singapore, Sept. 2014
52. Sz-Rung Shiang, Hung-yi Lee and Lin-shan Lee, "Spoken Question Answering Using Tree-structured Conditional Random Fields and Two-layer Random Walk", the 15th Annual Conference of the International Speech Communication Association (INTERSPEECH'14), Singapore, Sept. 2014
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54. Hung-yi Lee, Ting-yao Hu, How Jing, Yun-Fan Chang, Yu Tsao, Yu-Cheng Kao, Tsang-Long Pao, "Ensemble of Machine Learning and Acoustic Segment Model Techniques for Speech Emotion and Autism Spectrum Disorders Recognition", the 14th Annual Conference of the International Speech Communication Association (INTERSPEECH'13), Lyon, France, August 2013
55. Hung-yi Lee, Yu-yu Chou, Yow-Bang Wang, Lin-shan Lee, "Unsupervised Domain Adaptation for Spoken Document Summarization with Structured Support Vector Machine", the 38th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'13), Vancouver, Canada, May 2013
56. Hung-yi Lee, Yun-Chiao Li, Cheng-Tao Chung, Lin-shan Lee, "Enhancing Query Expansion for Semantic Retrieval of Spoken Content with Automatically Discovered Acoustic Patterns", the 38th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'13), Vancouver, Canada, May 2013
57. Yun-Chiao Li, Hung-yi Lee, Cheng-Tao Chung, Chun-an Chan, and Lin-shan Lee, "Towards Unsupervised Semantic Retrieval of Spoken Content with Query Expansion based on Automatically Discovered Acoustic Patterns", the 10th biannual IEEE workshop on Automatic Speech Recognition and Understanding (ASRU'13), Olomouc, Czech Republic, December 2013
58. Sz-Rung Shiang, Hung-yi Lee, Lin-shan Lee, "Supervised Spoken Document Summarization Based on Structured Support Vector Machine with Utterance Clusters as Hidden Variables", the 14th Annual Conference of the International Speech Communication Association (INTERSPEECH'13), Lyon, France, August 2013
59. Tsung-Hsien Wen, Aaron Heidel, Hung-yi Lee, Yu Tsao, Lin-shan Lee, "Recurrent Neural Network Based Language Model Personalization by Social Network Crowdsourcing", the 14th Annual Conference of the International Speech Communication Association (INTERSPEECH'13), Lyon, France, August 2013 (one of the 12 finalists for the best student paper award)
60. Ching-Feng Yeh, Hung-yi Lee and Lin-shan Lee, "Speaking Rate Normalization with Lattice-based Context-dependent Phoneme Duration Modeling for Personalized Speech Recognizers on Mobile Devices", the 14th Annual Conference of the International Speech Communication Association (INTERSPEECH'13), Lyon, France, August 2013
61. Tsung-Hsien Wen, Hung-yi Lee, Pei-Hao Su, Lin-shan Lee, " Interactive Spoken Content Retrieval by Extended Query Model and Continuous State Space Markov Decision Process", the 38th IEEE International Conference on Acoustics, Speech and Signal Processing Vancouver, Canada, May 2013
62. Hung-yi Lee, Tsung-Hsien Wen, Lin-shan Lee, "Improved Semantic Retrieval of Spoken Content by Language models Enhanced with Acoustic Similarity Graph", the 4th IEEE Workshop on Spoken Language Technology (SLT'12), Miami, Florida, December 2012
63. Tsung-Hsien Wen, Hung-yi Lee, Lin-shan Lee, "Personalized Language Modeling by Crowd Sourcing with Social Network Data for Voice Access of Cloud Applications", the 4th IEEE Workshop on Spoken Language Technology (SLT'12), Miami, Florida, December 2012
64. Hung-yi Lee, Yu-yu Chou, Yow-Bang Wang, Lin-shan Lee, "Supervised Spoken Document Summarization Jointly Considering Utterance Importance and Redundancy by Structured Support Vector Machine", the 13th Annual Conference of the International Speech Communication Association (INTERSPEECH'12), Portland, Oregon, September 2012
65. Hung-yi Lee, Po-wei Chou, Lin-shan Lee, "Open-Vocabulary Retrieval of Spoken Content with Shorter/Longer Queries Considering Word/Subword-based Acoustic Feature Similarity", the 13th Annual Conference of the International Speech Communication Association (INTERSPEECH'12), Portland, Oregon, September 2012
66. Hung-yi Lee, Yun-nung Chen, Lin-shan Lee, "Utterance-level Latent Topic Transition Modeling for Spoken Documents and its Application in Automatic Summarization", the 37th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'12), Kyoto, Japan, March 2012
67. Tsung-Hsien Wen, Hung-yi Lee, Lin-shan Lee, "Interactive Spoken Content Retrieval with Different Types of Actions Optimized by a Markov Decision Process", the 13th Annual Conference of the International Speech Communication Association (INTERSPEECH'12), Portland, Oregon, September 2012 (one of the 10 finalists for the best student paper award)
68. Tsung-wei Tu, Hung-yi Lee, Lin-shan Lee, "Semantic Query Expansion and Context-based Discriminative Term Modeling for Spoken Document Retrieval", the 37th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'12), Kyoto, Japan, March 2012 (IEEE Spoken Language Processing Student Travel Grant)
69. Yun-Nung Chen, Yu Huang, Hung-yi Lee, Lin-shan Lee, "Unsupervised Two-Stage Keyword Extraction from Spoken Documents by Topic Coherence and Support Vector Machine", the 37th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'12), Kyoto, Japan, March 2012
70. Ching-Feng Yeh, Aaron Heidel, Hung-yi Lee, Lin-shan Lee, "Recognition of Highly Imbalanced Code-mixed Bilingual Speech with Frame-level Language Detection based on Blurred Posteriorgram", the 37th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'12), Kyoto, Japan, March 2012
71. Hung-yi Lee, Yun-nung Chen, Lin-shan Lee, "Improved Speech Summarization and Spoken Term Detection with Graphical Analysis of Utterance Similarities", the 3rd Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2011), Xi'an, China, October 2011
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74. Yun-nung Chen, Chia-ping Chen, Hung-yi Lee, Chun-an Chan, Lin-shan Lee, "Improved Spoken Term Detection with Graph-based Re-ranking in Feature Space", the 36th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'11), Prague, Czech Republic, May 2011
75. Hung-yi Lee, Chia-ping Chen, Ching-feng Yeh, Lin-shan Lee, "A Framework Integrating Different Relevance Feedback Scenarios and Approaches for Spoken Term Detection", the 3rd IEEE Workshop on Spoken Language Technology (SLT'10), Berkeley, California, December 2010
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77. Hung-yi Lee and Lin-shan Lee, "Integrating Recognition and Retrieval with User Feedback: A New Framework for Spoken Term Detection", the 35th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'10), Dallas, Texas, March 2010 (cited in textbook)
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**Journal**

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2. Hung-yi Lee, Yi-Chen Chen, Sung-Feng Huang, Yu-Hsuan Wang, Chia-Hao Shen, "Audio Word2vec: Sequence-to-sequence Autoencoding for Unsupervised Learning of Audio Segmentation and Representation", submitted to IEEE/ACM Transactions on Audio, Speech, and Language Processing
3. Chia-Hsuan Lee, Hung-yi Lee, Szu-Lin Wu, Chi-Liang Liu, Wei Fang, Juei-Yang Hsu, Bo-Hsiang Tseng, "Machine Comprehension of Spoken Content: TOEFL Listening Test and Spoken SQuAD", submitted to IEEE/ACM Transactions on Audio, Speech, and Language Processing
4. Shun-Yao Shih, Fan-Keng Sun, Hung-yi Lee, "Temporal Pattern Attention for Multivariate Time Series Forecasting", submitted to the journal track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD)
5. Zih-Yun Chiu, Yi-Lin Tuan, Hung-yi Lee, Li-Chen Fu, "Parallelized Reverse Curriculum Generation", submitted to the journal track of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD)
6. Hung-Yi Lee, Pei-Hung Chung, Yen-Chen Wu, Tzu-Hsiang Lin, Tsung-Hsien Wen, "Interactive Spoken Content Retrieval by Deep Reinforcement Learning," IEEE/ACM Transactions on Audio, Speech, and Language Processing, vol. 26, no. 12, pp. 2447-2459, Dec. 2018
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