## Lin-Shan Lee

List of Publications by Year in descending order

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		567281	580821
151	1,549	15	25
papers	citations	h-index	g-index
152	152	152	534
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	End-to-End Whispered Speech Recognition with Frequency-Weighted Approaches and Pseudo Whisper Pre-training. , $2021, \ldots$		4
2	Defending Your Voice: Adversarial Attack on Voice Conversion. , 2021, , .		11
3	Fragmentvc: Any-To-Any Voice Conversion by End-To-End Extracting and Fusing Fine-Grained Voice Fragments with Attention. , 2021, , .		27
4	Towards Unsupervised Speech Recognition and Synthesis with Quantized Speech Representation Learning. , 2020, , .		18
5	Sequence-to-Sequence Automatic Speech Recognition with Word Embedding Regularization and Fused Decoding. , 2020, , .		7
6	Adversarial Training of End-to-end Speech Recognition Using a Criticizing Language Model. , 2019, , .		23
7	Unsupervised Discovery of Structured Acoustic Tokens With Applications to Spoken Term Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 394-405.	5.8	5
8	Rhythm-Flexible Voice Conversion Without Parallel Data Using Cycle-GAN Over Phoneme Posteriorgram Sequences. , 2018, , .		13
9	Transcribing Lyrics from Commercial Song Audio: the First Step Towards Singing Content Processing. , 2018, , .		6
10	Scalable Sentiment for Sequence-to-Sequence Chatbot Response with Performance Analysis. , 2018, , .		13
11	Domain Independent Key Term Extraction from Spoken Content Based on Context and Term Location Information in the Utterances. , $2018, , .$		1
12	Unsupervised Iterative Deep Learning of Speech Features and Acoustic Tokens with Applications to Spoken Term Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1914-1928.	5.8	7
13	Personalized acoustic modeling by weakly supervised multi-task deep learning using acoustic tokens discovered from unlabeled data. , 2017, , .		1
14	Abstractive headline generation for spoken content by attentive recurrent neural networks with ASR error modeling. , $2016,$ , .		4
15	Hierarchical attention model for improved machine comprehension of spoken content. , 2016, , .		8
16	Enhancing sparse voice annotation for semantic retrieval of personal photos by continuous space word representations., 2015,,.		1
17	An iterative deep learning framework for unsupervised discovery of speech features and linguistic units with applications on spoken term detection. , 2015, , .		7
18	An Improved Framework for Recognizing Highly Imbalanced Bilingual Code-switched Lectures with Cross-language Acoustic Modeling and Frame-level Language Identification. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, , 1-1.	5.8	6

#	Article	IF	Citations
19	Supervised Detection and Unsupervised Discovery of Pronunciation Error Patterns for Computer-Assisted Language Learning. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 564-579.	5.8	24
20	Spoken Content Retrieval—Beyond Cascading Speech Recognition with Text Retrieval. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1389-1420.	5.8	73
21	Enhancing automatically discovered multi-level acoustic patterns considering context consistency with applications in spoken term detection. , $2015,  ,  .$		1
22	Unsupervised spoken term detection with spoken queries by multi-level acoustic patterns with varying model granularity. , 2014, , .		12
23	Towards personalized video summarization using synchronized comments and Probabilistic Latent Semantic Analysis. , 2014, , .		0
24	Improved Semantic Retrieval of Spoken Content by Document/Query Expansion with Random Walk Over Acoustic Similarity Graphs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 80-94.	5.8	10
25	A Recursive Dialogue Game for Personalized Computer-Aided Pronunciation Training. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, , 1-1.	5.8	9
26	Spoken Knowledge Organization by Semantic Structuring and a Prototype Course Lecture System for Personalized Learning. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 883-898.	5.8	14
27	Transcribing code-switched bilingual lectures using deep neural networks with unit merging in acoustic modeling., 2014,,.		4
28	Improved open-vocabulary spoken content retrieval with word and subword lattices using acoustic feature similarity. Computer Speech and Language, 2014, 28, 1045-1065.	4.3	7
29	Variable Selection Linear Regression for Robust Speech Recognition. IEICE Transactions on Information and Systems, 2014, E97.D, 1477-1487.	0.7	1
30	Personalized video summarization based on Multi-Layered Probabilistic Latent Semantic Analysis with shared topics. , 2014, , .		2
31	An Experimental Analysis on Integrating Multi-Stream Spectro-Temporal, Cepstral and Pitch Information for Mandarin Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2006-2014.	3.2	9
32	Enhanced Spoken Term Detection Using Support Vector Machines and Weighted Pseudo Examples. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1272-1284.	3.2	17
33	Model-Based Unsupervised Spoken Term Detection with Spoken Queries. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1330-1342.	3.2	22
34	Towards unsupervised semantic retrieval of spoken content with query expansion based on automatically discovered acoustic patterns. , 2013, , .		6
35	Toward unsupervised discovery of pronunciation error patterns using universal phoneme posteriorgram for computer-assisted language learning. , 2013, , .		16
36	Unsupervised domain adaptation for spoken document summarization with structured support vector machine. , $2013$ , , .		5

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37	A dialogue game framework with personalized training using reinforcement learning for computer-assisted language learning. , 2013, , .		13
38	Unsupervised discovery of linguistic structure including two-level acoustic patterns using three cascaded stages of iterative optimization. , 2013, , .		17
39	Enhancing query expansion for semantic retrieval of spoken content with automatically discovered acoustic patterns., 2013,,.		10
40	Utterance-level latent topic transition modeling for spoken documents and its application in automatic summarization. , 2012, , .		3
41	Two-dimensional frame-and-feature weighted Viterbi decoding for robust speech recognition. , 2012, , .		O
42	Recognition of highly imbalanced code-mixed bilingual speech with frame-level language detection based on blurred posteriorgram. , 2012, , .		7
43	Minimum Phone Error model training on merged acoustic units for transcribing bilingual code-switched speech., 2012,,.		2
44	Semantic query expansion and context-based discriminative term modeling for spoken document retrieval., 2012,,.		4
45	Improved approaches of modeling and detecting Error Patterns with empirical analysis for Computer-Aided Pronunciation Training. , 2012, , .		34
46	Improved semantic retrieval of spoken content by language models enhanced with acoustic similarity graph. , $2012$ , , .		8
47	Personalized language modeling by crowd sourcing with social network data for voice access of cloud applications. , 2012, , .		9
48	Interactive Spoken Document Retrieval With Suggested Key Terms Ranked by a Markov Decision Process. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 632-645.	3.2	21
49	Modulation Spectrum Equalization for Improved Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 828-843.	3.2	19
50	Integrating Recognition and Retrieval With Relevance Feedback for Spoken Term Detection. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2095-2110.	3.2	9
51	Semantic Analysis and Organization of Spoken Documents Based on Parameters Derived From Latent Topics. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1875-1889.	3.2	15
52	Integrating frame-based and segment-based dynamic time warping for unsupervised spoken term detection with spoken queries. , $2011, \dots$		18
53	Improved spoken term detection with graph-based re-ranking in feature space. , 2011, , .		17
54	Multi-stream spectro-temporal and cepstral features based on data-driven hierarchical phoneme clusters. , $2011,$ , .		1

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55	Improved spoken term detection using support vector machines based on lattice context consistency. , 2011, , .		9
56	Performance Analysis for Lattice-Based Speech Indexing Approaches Using Words and Subword Units. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1562-1574.	3.2	17
57	An initial attempt to improve spoken term detection by learning optimal weights for different indexing features. , 2010, , .		2
58	Integrating recognition and retrieval with user feedback: A new framework for spoken term detection. , 2010, , .		6
59	A framework integrating different relevance feedback scenarios and approaches for spoken term detection., 2010,,.		3
60	Automatic key term extraction from spoken course lectures using branching entropy and prosodic/semantic features. , 2010, , .		22
61	Latent semantic retrieval of personal photos with sparse user annotation by fused image/speech/text features., 2009,,.		5
62	Improved lattice-based spoken document retrieval by directly learning from the evaluation measures. , 2009, , .		10
63	Improved clustered hierarchical tandem system with bottom-up processing. , 2009, , .		2
64	Higher Order Cepstral Moment Normalization for Improved Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 205-220.	3.2	24
65	Improved Features and Models for Detecting Edit Disfluencies in Transcribing Spontaneous Mandarin Speech. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 1263-1278.	3.2	14
66	Voice-based information retrieval & amp; $\pm x2014$ ; how far are we from the text-based information retrieval ?. , 2009, , .		8
67	Histogram-Based Quantization for Robust and/or Distributed Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 859-873.	3.2	12
68	Latent semantic retrieval of spoken documents over position specific posterior lattices., 2008,,.		9
69	Evaluation and Analysis of Minimum Phone Error Training and its Modified Versions for Large Vocabulary Mandarin Speech Recognition. , 2008, , .		0
70	Context dependent quantization for distributed and/or robust speech recognition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
71	Type-II dialogue systems for information access from unstructured knowledge sources. , 2007, , .		3
72	Analytical comparison between position specific posterior lattices and confusion networks based on words and subword units for spoken document indexing. , 2007, , .		12

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73	Robust topic inference for latent semantic language model adaptation. , 2007, , .		10
74	Robust speech recognition by properly utilizing reliable frames and segments in corrupted signals. , 2007, , .		1
75	Modulation spectrum equalization for robust speech recognition. , 2007, , .		4
76	Three-Stage Error Concealment for Distributed Speech Recognition (DSR) with Histogram-Based Quantization (HQ) Under Noisy Environment., 2007,,.		2
77	Virtual Conduction System with Multi-Resolution Wall Display. , 2007, , .		0
78	Pronunciation Modeling With Reduced Confusion for Mandarin Chinese Using a Three-Stage Framework. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 661-675.	3.2	9
79	A Perceptually Constrained GSVD-Based Approach for Enhancing Speech Corrupted by Colored Noise. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 119-134.	3.2	12
80	A Multi-layered Summarization System for Multi-media Archives by Understanding and Structuring of Chinese Spoken Documents. Lecture Notes in Computer Science, 2006, , 683-692.	1.3	1
81	Named entity recognition from spoken documents using global evidences and external knowledge sources with applications on Mandarin Chinese., 2005,,.		6
82	A multi-modal dialogue system for information navigation and retrieval across spoken document archives with topic hierarchies. , $2005$ , , .		5
83	Segmental eigenvoice with delicate eigenspace for improved speaker adaptation. IEEE Transactions on Speech and Audio Processing, 2005, 13, 399-411.	1.5	14
84	Spoken document understanding and organization. IEEE Signal Processing Magazine, 2005, 22, 42-60.	5.6	111
85	A discriminative HMM/N-gram-based retrieval approach for mandarin spoken documents. ACM Transactions on Asian Language Information Processing, 2004, 3, 128-145.	0.8	26
86	Data-driven temporal filters for robust features in speech recognition obtained via Minimum Classification Error (MCE). , 2002, , .		9
87	Discriminating capabilities of syllable-based features and approaches of utilizing them for voice retrieval of speech information in Mandarin Chinese. IEEE Transactions on Speech and Audio Processing, 2002, 10, 303-314.	1.5	45
88	A set of corpus-based text-to-speech synthesis technologies for Mandarin Chinese. IEEE Transactions on Speech and Audio Processing, 2002, 10, 481-494.	1.5	27
89	A hierarchical tag-graph search scheme with layered grammar rules for spontaneous speech understanding. Pattern Recognition Letters, 2002, 23, 819-831.	4.2	6
90	Voice access of global information for broad-band wireless: technologies of today and challenges of tomorrow. Proceedings of the IEEE, 2001, 89, 41-57.	21.3	8

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91	Improved parallel model combination techniques with split Gaussian mixtures for speech recognition under noisy conditions., 1999,,.		1
92	A framework of performance evaluation and error analysis methodology for speech understanding systems. , 1999, , .		0
93	Intelligent retrieval of dynamic networked information from mobile terminals using spoken natural language queries. IEEE Transactions on Consumer Electronics, 1998, 44, 62-72.	3.6	3
94	Isolated Mandarin base-syllable recognition based upon the segmental probability model. IEEE Transactions on Speech and Audio Processing, 1998, 6, 293-299.	1.5	4
95	Complete recognition of continuous Mandarin speech for Chinese language with very large vocabulary using limited training data. IEEE Transactions on Speech and Audio Processing, 1997, 5, 195-200.	1.5	38
96	Isolated Mandarin syllable recognition with limited training data specially considering the effect of tones. IEEE Transactions on Speech and Audio Processing, 1997, 5, 75-80.	1.5	5
97	Voice dictation of Mandarin Chinese. IEEE Signal Processing Magazine, 1997, 14, 63-101.	5.6	54
98	Continuous hidden Markov models integrating transitional and instantaneous features for Mandarin syllable recognition. Computer Speech and Language, 1993, 7, 247-263.	4.3	14
99	Markov modeling of Mandarin Chinese for decoding the phonetic sequence into Chinese characters. Computer Speech and Language, 1991, 5, 363-377.	4.3	21
100	Special speech recognition approaches for the highly confusing Mandarin syllables based on hidden Markov models. Computer Speech and Language, 1991, 5, 181-201.	4.3	10
101	The synthesis rules in a Chinese text-to-speech system. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1989, 37, 1309-1320.	2.0	61
102	The Minimum LikelihoodA New Concept for Bit Synchronization. IEEE Transactions on Communications, 1987, 35, 545-549.	7.8	12
103	A General Theory for Asynchronous Speech Encryption Techniques. IEEE Journal on Selected Areas in Communications, 1986, 4, 280-287.	14.0	6
104	A Differential Technique for Detections of Circularly Polarized Satellite Signal Parameters. IEEE Transactions on Communications, 1984, 32, 1135-1139.	7.8	1
105	A New Formulation of Spectrum-Orbit Utilization Efficiency for Satellite Communications in Interference-Limited Situations. IRE Transactions on Communications Systems, 1984, 32, 212-214.	0.6	0
106	A New Frequency Domain Speech Scrambling System Which Does Not Require Frame Synchronization. IEEE Transactions on Communications, 1984, 32, 444-456.	7.8	28
107	An A, B-Polar Approach for Multimode Polarization Analysis in Satellite Communications. IRE Transactions on Communications Systems, 1984, 32, 1045-1049.	0.6	0
108	A New Time Domain Speech Scrambling System Which Does Not Require Frame Synchronization. IEEE Journal on Selected Areas in Communications, 1984, 2, 443-455.	14.0	7

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109	Asynchronous speech encryption - formulation and simulation. , 1983, , .		О
110	Accurate Detection of Satellite Beacon Polarization States Using Cascaded Heterodyne Phase-Locked Loops. IEEE Transactions on Communications, 1982, 30, 283-293.	7.8	1
111	A modified blind equalization technique based on a constant modulus algorithm. , 0, , .		5
112	A Chinese text-to-speech system based upon a syllable concatenation model. , 0, , .		3
113	An Exact Performance Analysis of the Linear Diversity Combining Receiver for Fh/mfsk Systems Against Band Multitone Jammer. , 0, , .		0
114	An improved pragmatic approach to coded modulation design with multiple carrier frequencies. , 0, , .		0
115	Panel 1: Are We Providing The Right Education For Computer Science/engineering Students?., 0,,.		O
116	Golden Mandarin (III)-a user-adaptive prosodic-segment-based Mandarin dictation machine for Chinese language with very large vocabulary. , $0$ , , .		11
117	Complete recognition of continuous Mandarin speech for Chinese language with very large vocabulary but limited training data. , 0, , .		18
118	Speaker intention modeling for large vocabulary Mandarin spoken dialogues. , 0, , .		4
119	Robust speech recognition features based on temporal trajectory filtering of frequency band spectrum. , 0, , .		11
120	Very-large-vocabulary Mandarin voice message file retrieval using speech queries. , 0, , .		4
121	An efficient voice retrieval system for very-large-vocabulary Chinese textual databases with a clustered language model. , $0$ , , .		5
122	Automatic generation of prosodic structure for high quality Mandarin speech synthesis. , 0, , .		15
123	Use of prosodic information to integrate acoustic and linguistic knowledge in continuous Mandarin speech recognition with very large vocabulary. , 0, , .		6
124	Fast and accurate recognition of very-large-vocabulary continuous Mandarin speech for Chinese language with improved segmental probability modeling. , $0$ , , .		3
125	A modified code tracking loop for direct-sequence spread-spectrum systems on frequency-selective fading channels. , 0, , .		1
126	Internet Chinese information retrieval using unconstrained Mandarin speech queries based on a client-server architecture and a PAT-tree-based language model. , 0, , .		2

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127	Syllable-based relevance feedback techniques for Mandarin voice record retrieval using speech queries. , $0$ , , .		1
128	A key-phrase understanding framework integrating real world knowledge with speech recognition with initial application in voice memo systems for Mandarin Chinese. , $0$ , , .		2
129	A Chinese text-to-speech system based on part-of-speech analysis, prosodic modeling and non-uniform units. , $0$ , , .		16
130	A multi-phase approach for fast spotting of large vocabulary Chinese keywords from Mandarin speech using prosodic information. , 0, , .		6
131	A word-length-dependent confidence measure for large vocabulary Chinese keyword spotting. , 0, , .		0
132	Improved robustness for speech recognition under noisy conditions using correlated parallel model combination. , $0$ , , .		4
133	Statistics-based segment pattern lexicon-a new direction for Chinese language modeling. , 0, , .		9
134	A noncoherent sequential PN code acquisition scheme in DS/SS receivers. , 0, , .		1
135	Fundamental performance analysis for spoken dialogue systems based on a quantitative simulation approach. , 0, , .		1
136	Retrieval of broadcast news speech in Mandarin Chinese collected in Taiwan using syllable-level statistical characteristics. , $0$ , , .		23
137	Improved pronunciation modelling by inverse word frequency and pronunciation entropy. , 0, , .		1
138	Improved MFCC feature extraction by PCA-optimized filter-bank for speech recognition. , 0, , .		13
139	Rapid speaker adaptation using a priori knowledge by eigenspace analysis of MLLR parameters. , 0, , .		14
140	Pronunciation variation analysis based on acoustic and phonemic distance measures with application examples on Mandarin Chinese. , $0$ , , .		5
141	Improved robust features for speech recognition by integrating time-frequency principal components (TFPC) and histogram equalization (HEQ). , $0$ , , .		3
142	Improved tone recognition for fluent Mandarin speech based on new inter-syllabic features and robust pitch extraction. , $0$ , , .		4
143	Improved language model adaptation using existing and derived external resources. , 0, , .		2
144	Data-driven temporal filters based on multi-eigenvectors for robust features in speech recognition. , 0, , .		5

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145	Large vocabulary continuous Mandarin speech recognition using finite state machine. , 0, , .		O
146	Efficient and robust distributed speech recognition (DSR) over wireless fading channels: 2D-DCT compression, iterative bit allocation, short BCH code and interleaving., 0,,.		10
147	Robust features for speech recognition using minimum variance distortionless response (MVDR) spectrum estimation and feature normalization techniques., 0,,.		3
148	Joint Uncertainty Decoding (JUD) with Histogram-Based Quantization (HQ) for Robust and/or Distributed Speech Recognition. , 0, , .		3
149	Entropy-Based Feature Parameter Weighting for Robust Speech Recognition. , 0, , .		4
150	Improved Spoken Document Retrieval With Dynamic Key Term Lexicon and Probabilistic Latent Semantic Analysis (PLSA)., 0,,.		7
151	Improved search strategy for large vocabulary continuous Mandarin speech recognition. , 0, , .		2