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	Spoken document understanding and organization. IEEE Signal Processing Magazine, 2005, 22, 42-60.	5.6	111
2	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
3	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
4	Voice dictation of Mandarin Chinese. IEEE Signal Processing Magazine, 1997, 14, 63-101.	5.6	54
5	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
6	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
7	Improved approaches of modeling and detecting Error Patterns with empirical analysis for Computer-Aided Pronunciation Training. , 2012, , .		34
8	A New Frequency Domain Speech Scrambling System Which Does Not Require Frame Synchronization. IEEE Transactions on Communications, 1984, 32, 444-456.	7.8	28
9	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
10	Fragmentvc: Any-To-Any Voice Conversion by End-To-End Extracting and Fusing Fine-Grained Voice Fragments with Attention. , 2021, , .		27
11	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
12	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
13	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
14	Retrieval of broadcast news speech in Mandarin Chinese collected in Taiwan using syllable-level statistical characteristics. , 0, , .		23
15	Adversarial Training of End-to-end Speech Recognition Using a Criticizing Language Model. , 2019, , .		23
16	Automatic key term extraction from spoken course lectures using branching entropy and prosodic/semantic features. , 2010, , .		22
17	Model-Based Unsupervised Spoken Term Detection with Spoken Queries. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1330-1342.	3.2	22
18	Markov modeling of Mandarin Chinese for decoding the phonetic sequence into Chinese characters. Computer Speech and Language, 1991, 5, 363-377.	4.3	21

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19	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
20	Modulation Spectrum Equalization for Improved Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 828-843.	3.2	19
21	Complete recognition of continuous Mandarin speech for Chinese language with very large vocabulary but limited training data. , 0, , .		18
22	Integrating frame-based and segment-based dynamic time warping for unsupervised spoken term detection with spoken queries. , 2011 , , .		18
23	Towards Unsupervised Speech Recognition and Synthesis with Quantized Speech Representation Learning. , 2020, , .		18
24	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
25	Improved spoken term detection with graph-based re-ranking in feature space. , $2011, , .$		17
26	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
27	Unsupervised discovery of linguistic structure including two-level acoustic patterns using three cascaded stages of iterative optimization. , $2013, \ldots$		17
28	A Chinese text-to-speech system based on part-of-speech analysis, prosodic modeling and non-uniform units. , 0, , .		16
29	Toward unsupervised discovery of pronunciation error patterns using universal phoneme posteriorgram for computer-assisted language learning. , 2013, , .		16
30	Automatic generation of prosodic structure for high quality Mandarin speech synthesis. , 0, , .		15
31	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
32	Continuous hidden Markov models integrating transitional and instantaneous features for Mandarin syllable recognition. Computer Speech and Language, 1993, 7, 247-263.	4.3	14
33	Rapid speaker adaptation using a priori knowledge by eigenspace analysis of MLLR parameters. , 0, , .		14
34	Segmental eigenvoice with delicate eigenspace for improved speaker adaptation. IEEE Transactions on Speech and Audio Processing, 2005, 13, 399-411.	1.5	14
35	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
36	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

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37	Improved MFCC feature extraction by PCA-optimized filter-bank for speech recognition. , 0, , .		13
38	A dialogue game framework with personalized training using reinforcement learning for computer-assisted language learning. , 2013, , .		13
39	Rhythm-Flexible Voice Conversion Without Parallel Data Using Cycle-GAN Over Phoneme Posteriorgram Sequences. , 2018, , .		13
40	Scalable Sentiment for Sequence-to-Sequence Chatbot Response with Performance Analysis. , 2018, , .		13
41	The Minimum LikelihoodA New Concept for Bit Synchronization. IEEE Transactions on Communications, 1987, 35, 545-549.	7.8	12
42	Analytical comparison between position specific posterior lattices and confusion networks based on words and subword units for spoken document indexing. , 2007, , .		12
43	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
44	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
45	Unsupervised spoken term detection with spoken queries by multi-level acoustic patterns with varying model granularity. , 2014, , .		12
46	Golden Mandarin (III)-a user-adaptive prosodic-segment-based Mandarin dictation machine for Chinese language with very large vocabulary. , 0, , .		11
47	Robust speech recognition features based on temporal trajectory filtering of frequency band spectrum. , 0, , .		11
48	Defending Your Voice: Adversarial Attack on Voice Conversion. , 2021, , .		11
49	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
50	Efficient and robust distributed speech recognition (DSR) over wireless fading channels: 2D-DCT compression, iterative bit allocation, short BCH code and interleaving., 0,,.		10
51	Robust topic inference for latent semantic language model adaptation. , 2007, , .		10
52	Improved lattice-based spoken document retrieval by directly learning from the evaluation measures. , 2009, , .		10
53	Enhancing query expansion for semantic retrieval of spoken content with automatically discovered acoustic patterns., 2013,,.		10
54	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

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55	Statistics-based segment pattern lexicon-a new direction for Chinese language modeling. , 0, , .		9
56	Data-driven temporal filters for robust features in speech recognition obtained via Minimum Classification Error (MCE)., 2002,,.		9
57	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
58	Latent semantic retrieval of spoken documents over position specific posterior lattices., 2008,,.		9
59	Improved spoken term detection using support vector machines based on lattice context consistency. , 2011, , .		9
60	Personalized language modeling by crowd sourcing with social network data for voice access of cloud applications. , 2012 , , .		9
61	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
62	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
63	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
64	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
65	Voice-based information retrieval & amp; $\pm x2014$; how far are we from the text-based information retrieval ?. , 2009, , .		8
66	Improved semantic retrieval of spoken content by language models enhanced with acoustic similarity graph. , 2012, , .		8
67	Hierarchical attention model for improved machine comprehension of spoken content., 2016,,.		8
68	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
69	Improved Spoken Document Retrieval With Dynamic Key Term Lexicon and Probabilistic Latent Semantic Analysis (PLSA)., 0,,.		7
70	Recognition of highly imbalanced code-mixed bilingual speech with frame-level language detection based on blurred posteriorgram. , 2012, , .		7
71	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
72	An iterative deep learning framework for unsupervised discovery of speech features and linguistic units with applications on spoken term detection. , 2015 , , .		7

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73	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
74	Sequence-to-Sequence Automatic Speech Recognition with Word Embedding Regularization and Fused Decoding. , 2020, , .		7
75	A General Theory for Asynchronous Speech Encryption Techniques. IEEE Journal on Selected Areas in Communications, 1986, 4, 280-287.	14.0	6
76	Use of prosodic information to integrate acoustic and linguistic knowledge in continuous Mandarin speech recognition with very large vocabulary. , 0, , .		6
77	A multi-phase approach for fast spotting of large vocabulary Chinese keywords from Mandarin speech using prosodic information. , 0, , .		6
78	A hierarchical tag-graph search scheme with layered grammar rules for spontaneous speech understanding. Pattern Recognition Letters, 2002, 23, 819-831.	4.2	6
79	Named entity recognition from spoken documents using global evidences and external knowledge sources with applications on Mandarin Chinese. , 2005, , .		6
80	Integrating recognition and retrieval with user feedback: A new framework for spoken term detection. , 2010, , .		6
81	Towards unsupervised semantic retrieval of spoken content with query expansion based on automatically discovered acoustic patterns., 2013,,.		6
82	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
83	Transcribing Lyrics from Commercial Song Audio: the First Step Towards Singing Content Processing. , 2018, , .		6
84	A modified blind equalization technique based on a constant modulus algorithm. , 0, , .		5
85	An efficient voice retrieval system for very-large-vocabulary Chinese textual databases with a clustered language model., 0, , .		5
86	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
87	Pronunciation variation analysis based on acoustic and phonemic distance measures with application examples on Mandarin Chinese. , 0 , , .		5
88	Data-driven temporal filters based on multi-eigenvectors for robust features in speech recognition. , 0, , .		5
89	A multi-modal dialogue system for information navigation and retrieval across spoken document archives with topic hierarchies. , 2005, , .		5
90	Latent semantic retrieval of personal photos with sparse user annotation by fused image/speech/text features. , 2009, , .		5

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91	Unsupervised domain adaptation for spoken document summarization with structured support vector machine. , $2013, \ldots$		5
92	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
93	Speaker intention modeling for large vocabulary Mandarin spoken dialogues. , 0, , .		4
94	Very-large-vocabulary Mandarin voice message file retrieval using speech queries. , 0, , .		4
95	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
96	Improved robustness for speech recognition under noisy conditions using correlated parallel model combination. , 0 , , .		4
97	Improved tone recognition for fluent Mandarin speech based on new inter-syllabic features and robust pitch extraction. , 0 , , .		4
98	Entropy-Based Feature Parameter Weighting for Robust Speech Recognition. , 0, , .		4
99	Modulation spectrum equalization for robust speech recognition. , 2007, , .		4
100	Semantic query expansion and context-based discriminative term modeling for spoken document retrieval. , 2012, , .		4
101	Transcribing code-switched bilingual lectures using deep neural networks with unit merging in acoustic modeling. , 2014, , .		4
102	Abstractive headline generation for spoken content by attentive recurrent neural networks with ASR error modeling. , 2016 , , .		4
103	End-to-End Whispered Speech Recognition with Frequency-Weighted Approaches and Pseudo Whisper Pre-training. , 2021, , .		4
104	A Chinese text-to-speech system based upon a syllable concatenation model. , 0, , .		3
105	Fast and accurate recognition of very-large-vocabulary continuous Mandarin speech for Chinese language with improved segmental probability modeling. , 0, , .		3
106	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
107	Improved robust features for speech recognition by integrating time-frequency principal components (TFPC) and histogram equalization (HEQ). , 0 , , .		3
108	Robust features for speech recognition using minimum variance distortionless response (MVDR) spectrum estimation and feature normalization techniques., 0,,.		3

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109	Joint Uncertainty Decoding (JUD) with Histogram-Based Quantization (HQ) for Robust and/or Distributed Speech Recognition. , 0, , .		3
110	Type-II dialogue systems for information access from unstructured knowledge sources., 2007,,.		3
111	A framework integrating different relevance feedback scenarios and approaches for spoken term detection. , 2010, , .		3
112	Utterance-level latent topic transition modeling for spoken documents and its application in automatic summarization. , 2012 , , .		3
113	Internet Chinese information retrieval using unconstrained Mandarin speech queries based on a client-server architecture and a PAT-tree-based language model., 0,,.		2
114	A key-phrase understanding framework integrating real world knowledge with speech recognition with initial application in voice memo systems for Mandarin Chinese. , 0 , , .		2
115	Improved language model adaptation using existing and derived external resources. , 0, , .		2
116	Three-Stage Error Concealment for Distributed Speech Recognition (DSR) with Histogram-Based Quantization (HQ) Under Noisy Environment. , 2007, , .		2
117	Improved clustered hierarchical tandem system with bottom-up processing. , 2009, , .		2
118	An initial attempt to improve spoken term detection by learning optimal weights for different indexing features. , $2010, , .$		2
119	Minimum Phone Error model training on merged acoustic units for transcribing bilingual code-switched speech., 2012,,.		2
120	Personalized video summarization based on Multi-Layered Probabilistic Latent Semantic Analysis with shared topics. , $2014, , .$		2
121	Improved search strategy for large vocabulary continuous Mandarin speech recognition. , 0, , .		2
122	Accurate Detection of Satellite Beacon Polarization States Using Cascaded Heterodyne Phase-Locked Loops. IEEE Transactions on Communications, 1982, 30, 283-293.	7.8	1
123	A Differential Technique for Detections of Circularly Polarized Satellite Signal Parameters. IEEE Transactions on Communications, 1984, 32, 1135-1139.	7.8	1
124	A modified code tracking loop for direct-sequence spread-spectrum systems on frequency-selective fading channels. , 0, , .		1
125	Syllable-based relevance feedback techniques for Mandarin voice record retrieval using speech queries. , 0, , .		1
126	A noncoherent sequential PN code acquisition scheme in DS/SS receivers. , 0, , .		1

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127	Improved parallel model combination techniques with split Gaussian mixtures for speech recognition under noisy conditions. , 1999, , .		1
128	Fundamental performance analysis for spoken dialogue systems based on a quantitative simulation approach. , 0 , , .		1
129	Improved pronunciation modelling by inverse word frequency and pronunciation entropy. , 0, , .		1
130	Robust speech recognition by properly utilizing reliable frames and segments in corrupted signals. , 2007, , .		1
131	Multi-stream spectro-temporal and cepstral features based on data-driven hierarchical phoneme clusters., 2011,,.		1
132	Variable Selection Linear Regression for Robust Speech Recognition. IEICE Transactions on Information and Systems, 2014, E97.D, 1477-1487.	0.7	1
133	Enhancing sparse voice annotation for semantic retrieval of personal photos by continuous space word representations., 2015,,.		1
134	Enhancing automatically discovered multi-level acoustic patterns considering context consistency with applications in spoken term detection. , $2015, , .$		1
135	Personalized acoustic modeling by weakly supervised multi-task deep learning using acoustic tokens discovered from unlabeled data. , 2017, , .		1
136	Domain Independent Key Term Extraction from Spoken Content Based on Context and Term Location Information in the Utterances. , $2018, , .$		1
137	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
138	Asynchronous speech encryption - formulation and simulation. , 1983, , .		0
139	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
140	An A, B-Polar Approach for Multimode Polarization Analysis in Satellite Communications. IRE Transactions on Communications Systems, 1984, 32, 1045-1049.	0.6	0
141	An Exact Performance Analysis of the Linear Diversity Combining Receiver for Fh/mfsk Systems Against Band Multitone Jammer. , 0, , .		0
142	An improved pragmatic approach to coded modulation design with multiple carrier frequencies. , 0, , .		0
143	Panel 1: Are We Providing The Right Education For Computer Science/engineering Students?., 0,,.		0
144	A word-length-dependent confidence measure for large vocabulary Chinese keyword spotting. , 0, , .		0

#	Article	IF	CITATIONS
145	A framework of performance evaluation and error analysis methodology for speech understanding systems. , 1999, , .		О
146	Large vocabulary continuous Mandarin speech recognition using finite state machine. , 0, , .		0
147	Virtual Conduction System with Multi-Resolution Wall Display. , 2007, , .		O
148	Evaluation and Analysis of Minimum Phone Error Training and its Modified Versions for Large Vocabulary Mandarin Speech Recognition., 2008,,.		0
149	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	О
150	Two-dimensional frame-and-feature weighted Viterbi decoding for robust speech recognition. , 2012, , .		0
151	Towards personalized video summarization using synchronized comments and Probabilistic Latent Semantic Analysis. , 2014, , .		0