

Steve J Renals

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,563
citations

22
h-index

36
g-index

103
ext. papers

1,921
ext. citations

2.6
avg, IF

4.91
L-index

#	Paper	IF	Citations
94	Convolutional Neural Networks for Distant Speech Recognition. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 1120-1124	3.2	155
93	2014 ,		85
92	Robust Speaker-Adaptive HMM-Based Text-to-Speech Synthesis. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 1208-1230		85
91	A study of network dynamics. <i>Journal of Statistical Physics</i> , 1990 , 58, 825-848	1.5	59
90	Multilingual training of deep neural networks 2013 ,		55
89	2007 ,		52
88	Practical identifiability of finite mixtures of multivariate bernoulli distributions. <i>Neural Computation</i> , 2000 , 12, 141-52	2.9	50
87	Open Challenges in Modelling, Analysis and Synthesis of Human Behaviour in Human-Human and Human-Machine Interactions. <i>Cognitive Computation</i> , 2015 , 7, 397-413	4.4	49
86	Hybrid acoustic models for distant and multichannel large vocabulary speech recognition 2013 ,		43
85	Speech synthesis technologies for individuals with vocal disabilities: Voice banking and reconstruction. <i>Acoustical Science and Technology</i> , 2012 , 33, 1-5	0.5	43
84	Learning Hidden Unit Contributions for Unsupervised Acoustic Model Adaptation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016 , 24, 1450-1463	3.6	42
83	Acoustic-Articulatory Modeling With the Trajectory HMM. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 245-248	3.8	39
82	Speech Recognition Using Augmented Conditional Random Fields. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 354-365		37
81	The Use of Recurrent Neural Networks in Continuous Speech Recognition. <i>Kluwer International Series in Engineering and Computer Science</i> , 1996 , 233-258		33
80	. <i>IEEE Transactions on Multimedia</i> , 2007 , 9, 25-36	6.6	32
79	Indexing and retrieval of broadcast news. <i>Speech Communication</i> , 2000 , 32, 5-20	2.8	31
78	Evaluation of a hierarchical reinforcement learning spoken dialogue system. <i>Computer Speech and Language</i> , 2010 , 24, 395-429	2.8	28

77	Incorporating speaker and discourse features into speech summarization 2006 ,		27
76	Speech recognition challenge in the wild: Arabic MGB-3 2017 ,		25
75	Combining Spectral Representations for Large-Vocabulary Continuous Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 508-518		23
74	Confidence measures from local posterior probability estimates. <i>Computer Speech and Language</i> , 1999 , 13, 395-411	2.8	23
73	Neural networks for distant speech recognition 2014 ,		22
72	Knowledge distillation for small-footprint highway networks 2017 ,		22
71	Automatic Dialect Detection in Arabic Broadcast Speech		22
70	Segmental Recurrent Neural Networks for End-to-End Speech Recognition		22
69	Regularization of context-dependent deep neural networks with context-independent multi-task training 2015 ,		20
68	Revisiting hybrid and GMM-HMM system combination techniques 2013 ,		19
67	Differentiable pooling for unsupervised speaker adaptation 2015 ,		18
66	Regularized Subspace Gaussian Mixture Models for Speech Recognition. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 419-422	3.2	18
65	Multi-level adaptive networks in tandem and hybrid ASR systems 2013 ,		17
64	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014 , 8, 195-208	7.5	16
63	Improving Children's Speech Recognition Through Out-of-Domain Data Augmentation		16
62	Accessing the spoken word. <i>International Journal on Digital Libraries</i> , 2005 , 5, 287-298	1.4	14
61	Recognition of Dialogue Acts in Multiparty Meetings Using a Switching DBN. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1303-1314		13
60	Hierarchical Bayesian Language Models for Conversational Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 1941-1954		12

59	A digital microphone array for distant speech recognition 2010 ,		11
58	Dimensionality reduction of electropalatographic data using latent variable models. <i>Speech Communication</i> , 1998 , 26, 259-282	2.8	11
57	The MGB-2 challenge: Arabic multi-dialect broadcast media recognition 2016 ,		11
56	. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017 , 25, 1502-1511	3.6	10
55	Cross-Lingual Subspace Gaussian Mixture Models for Low-Resource Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014 , 22, 17-27	3.6	10
54	Multitask Learning of Context-Dependent Targets in Deep Neural Network Acoustic Models. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017 , 25, 238-247	3.6	10
53	On Learning Interpretable CNNs with Parametric Modulated Kernel-Based Filters		10
52	Multimodal Integration for Meeting Group Action Segmentation and Recognition. <i>Lecture Notes in Computer Science</i> , 2006 , 52-63	0.9	10
51	Sequence-to-sequence models for punctuated transcription combining lexical and acoustic features 2017 ,		9
50	DBN Based Joint Dialogue Act Recognition of Multiparty Meetings 2007 ,		9
49	From Text Summarisation to Style-Specific Summarisation for Broadcast News. <i>Lecture Notes in Computer Science</i> , 2004 , 223-237	0.9	9
48	Information extraction from broadcast news. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000 , 358, 1295-1310	3	9
47	End-to-End Neural Segmental Models for Speech Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017 , 11, 1254-1264	7.5	8
46	Reinforcement learning of dialogue strategies with hierarchical abstract machines 2006 ,		8
45	Neural nets and hidden Markov models: Review and generalizations. <i>Speech Communication</i> , 1992 , 11, 237-246	2.8	8
44	Unsupervised Adaptation of Recurrent Neural Network Language Models		8
43	Recording speech articulation in dialogue: Evaluating a synchronized double electromagnetic articulography setup. <i>Journal of Phonetics</i> , 2013 , 41, 421-431	2.2	7
42	Punctuated transcription of multi-genre broadcasts using acoustic and lexical approaches 2016 ,		7

41	2019,		7
40	Modelling acoustic feature dependencies with artificial neural networks: Trajectory-RNAE 2015,		6
39	Extrinsic summarization evaluation. <i>ACM Transactions on Speech and Language Processing</i> , 2009 , 6, 1-29		6
38	The ambient spotlight 2010,		6
37	Probabilistic Linear Discriminant Analysis for Acoustic Modeling. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 702-706	3.2	5
36	Accessing information in spoken audio. <i>Speech Communication</i> , 2000 , 32, 1-3	2.8	5
35	Small-Footprint Deep Neural Networks with Highway Connections for Speech Recognition		5
34	Unsupervised language model adaptation based on topic and role information in multiparty meetings		5
33	Differentiable Pooling for Unsupervised Acoustic Model Adaptation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016 , 24, 1773-1784	3.6	5
32	Speaker Adaptive Training Using Model Agnostic Meta-Learning 2019,		5
31	Joint Uncertainty Decoding for Noise Robust Subspace Gaussian Mixture Models. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 1791-1804		4
30	Simplifying very deep convolutional neural network architectures for robust speech recognition 2017,		4
29	Recognition of overlapping speech using digital MEMS microphone arrays 2013,		4
28	Topic-based mixture language modelling. <i>Natural Language Engineering</i> , 1999 , 5, 355-375	1.1	4
27	Factorised Representations for Neural Network Adaptation to Diverse Acoustic Environments		4
26	Multistream Recognition of Dialogue Acts in Meetings. <i>Lecture Notes in Computer Science</i> , 2006 , 178-189	0.9	4
25	Adaptation Algorithms for Neural Network-Based Speech Recognition: An Overview. <i>IEEE Open Journal of Signal Processing</i> , 2021 , 2, 33-66	1.2	4
24	Distant Speech Recognition Experiments Using the AMI Corpus 2017, 355-368		3

23	Speech Recognition 2010 , 297-332		3
22	ASR system modeling for automatic evaluation and optimization of dialogue systems 2002 ,		3
21	A Deep 2D Convolutional Network for Waveform-Based Speech Recognition		3
20	Multi-Reference Evaluation for Dialectal Speech Recognition System: A Study for Egyptian ASR 2015 ,		3
19	Exploiting ultrasound tongue imaging for the automatic detection of speech articulation errors. <i>Speech Communication</i> , 2021 , 128, 24-34	2.8	3
18	Acoustic Model Adaptation from Raw Waveforms with Sinchnet 2019 ,		3
17	2019 ,		3
16	Multi-Scale Octave Convolutions for Robust Speech Recognition 2020 ,		2
15	WERD: Using social text spelling variants for evaluating dialectal speech recognition 2017 ,		2
14	ROCKIT 2014 ,		2
13	Hierarchical Pitman-Yor language models for ASR in meetings 2007 ,		2
12	Statistical Language Modelling. <i>Lecture Notes in Computer Science</i> , 2003 , 78-105	0.9	2
11	Hierarchical dialogue optimization using semi-Markov decision processes		2
10	A parallel training algorithm for hierarchical pitman-yor process language models		2
9	A system for automatic alignment of broadcast media captions using weighted finite-state transducers 2015 ,		1
8	Automatic analysis of multiparty meetings. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2011 , 36, 917-932	1	1
7	Evaluation of kernel methods for speaker verification and identification 2002 ,		1
6	Analyzing Deep CNN-Based Utterance Embeddings for Acoustic Model Adaptation 2018 ,		1

5	Automatic Speech Recognition 2010 , 804-838		1
4	User Generated Dialogue Systems: uDialogue 2017 , 77-114		0
3	Automatic audiovisual synchronisation for ultrasound tongue imaging. <i>Speech Communication</i> , 2021 , 132, 83-95	2.8	0
2	Conclusion and perspectives232-237		
1	Towards Robust Waveform-Based Acoustic Models. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2022 , 1-1		3.6