

Herman Kamper

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

770
citations

1478505

6
h-index

1125743

13
g-index

44
all docs

44
docs citations

44
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep convolutional acoustic word embeddings using word-pair side information. , 2016, , .		83
2	Unsupervised neural network based feature extraction using weak top-down constraints. , 2015, , .		66
3	A segmental framework for fully-unsupervised large-vocabulary speech recognition. Computer Speech and Language, 2017, 46, 154-174.	4.3	52
4	Unsupervised Word Segmentation and Lexicon Discovery Using Acoustic Word Embeddings. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 669-679.	5.8	44
5	A comparison of neural network methods for unsupervised representation learning on the zero resource speech challenge. , 0, , .		43
6	Vector-Quantized Neural Networks for Acoustic Unit Discovery in the ZeroSpeech 2020 Challenge. , 0, , .		43
7	An embedded segmental K-means model for unsupervised segmentation and clustering of speech. , 2017, , .		35
8	Visually Grounded Learning of Keyword Prediction from Untranscribed Speech. , 0, , .		33
9	Query-by-Example Search with Discriminative Neural Acoustic Word Embeddings. , 0, , .		32
10	Truly Unsupervised Acoustic Word Embeddings Using Weak Top-down Constraints in Encoder-decoder Models. , 2019, , .		28
11	Low-Resource Speech-to-Text Translation. , 0, , .		27
12	Semantic Speech Retrieval With a Visually Grounded Model of Untranscribed Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 89-98.	5.8	26
13	A Comparison of Discrete and Soft Speech Units for Improved Voice Conversion. , 2022, , .		25
14	Towards speech-to-text translation without speech recognition. , 2017, , .		24
15	Unsupervised Acoustic Unit Discovery for Speech Synthesis Using Discrete Latent-Variable Neural Networks. , 0, , .		21
16	Unsupervised lexical clustering of speech segments using fixed-dimensional acoustic embeddings. , 2014, , .		17
17	Multimodal One-shot Learning of Speech and Images. , 2019, , .		17
18	Feature Exploration for Almost Zero-Resource ASR-Free Keyword Spotting Using a Multilingual Bottleneck Extractor and Correspondence Autoencoders. , 0, , .		14

#	ARTICLE	IF	CITATIONS
19	Unsupervised Feature Learning for Speech Using Correspondence and Siamese Networks. IEEE Signal Processing Letters, 2020, 27, 421-425.	3.6	12
20	Multilingual and unsupervised subword modeling for zero-resource languages. Computer Speech and Language, 2021, 65, 101098.	4.3	12
21	Multi-accent acoustic modelling of South African English. Speech Communication, 2012, 54, 801-813.	2.8	10
22	Semantic Query-by-example Speech Search Using Visual Grounding. , 2019, , .		10
23	Fast ASR-free and Almost Zero-resource Keyword Spotting Using DTW and CNNs for Humanitarian Monitoring. , 0, , .		10
24	Multilingual Acoustic Word Embedding Models for Processing Zero-resource Languages. , 2020, , .		9
25	A Comparison of Self-Supervised Speech Representations As Input Features For Unsupervised Acoustic Word Embeddings. , 2021, , .		9
26	Acoustic Word Embeddings for Zero-Resource Languages Using Self-Supervised Contrastive Learning and Multilingual Adaptation. , 2021, , .		9
27	Capitalising on North American speech resources for the development of a South African English large vocabulary speech recognition system. Computer Speech and Language, 2014, 28, 1255-1268.	4.3	7
28	Weakly supervised spoken term discovery using cross-lingual side information. , 2017, , .		7
29	Improved Acoustic Word Embeddings for Zero-Resource Languages Using Multilingual Transfer. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1107-1118.	5.8	7
30	On the Contributions of Visual and Textual Supervision in Low-Resource Semantic Speech Retrieval. , 0, , .		7
31	ASR-Free CNN-DTW Keyword Spotting Using Multilingual Bottleneck Features for Almost Zero-Resource Languages. , 0, , .		6
32	Phoneme Based Embedded Segmental K-Means for Unsupervised Term Discovery. , 2018, , .		5
33	Feature learning for efficient ASR-free keyword spotting in low-resource languages. Computer Speech and Language, 2022, 71, 101275.	4.3	5
34	On the expected behaviour of noise regularised deep neural networks as Gaussian processes. Pattern Recognition Letters, 2020, 138, 75-81.	4.2	3
35	BiNet: A binary inpainting network for deep patch-based image compression. Signal Processing: Image Communication, 2021, 92, 116119.	3.2	3
36	Towards Improving Human Arithmetic Learning using Machine Learning. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Improving Unsupervised Acoustic Word Embeddings using Speaker and Gender Information. , 2020, , .		2
38	Training Neural Networks for Plant Estimation, Control and Disturbance Rejection. IFAC-PapersOnLine, 2020, 53, 1664-1670.	0.9	2
39	Unsupervised vs. Transfer Learning for Multimodal One-Shot Matching of Speech and Images. , 0, , .		2
40	The impact of accent identification errors on speech recognition of South African English. South African Journal of Science, 2014, 110, 1-6.	0.7	1
41	Cross-Lingual Topic Prediction For Speech Using Translations. , 2020, , .		0
42	Combining primitive DQNs for improved reinforcement learning in Minecraft. , 2020, , .		0
43	If dropout limits trainable depth, does critical initialisation still matter? A large-scale statistical analysis on ReLU networks. Pattern Recognition Letters, 2020, 138, 95-105.	4.2	0
44	StarGAN-ZSVC: Towards Zero-Shot Voice Conversion in Low-Resource Contexts. Communications in Computer and Information Science, 2020, , 69-84.	0.5	0