Jun Du

List of Publications by Year
in descending order

80 papers	3,476 citations	430874 18 h-index	361022 35 g-index
81 all docs	81 docs citations	81 times ranked	1585 citing authors

#	Article	IF	Citations
1	A Regression Approach to Speech Enhancement Based on Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 7-19.	5.8	926
2	An Experimental Study on Speech Enhancement Based on Deep Neural Networks. IEEE Signal Processing Letters, 2014, 21, 65-68.	3.6	692
3	Watch, attend and parse: An end-to-end neural network based approach to handwritten mathematical expression recognition. Pattern Recognition, 2017, 71, 196-206.	8.1	172
4	On Mean Absolute Error for Deep Neural Network Based Vector-to-Vector Regression. IEEE Signal Processing Letters, 2020, 27, 1485-1489.	3.6	132
5	Track, Attend, and Parse (TAP): An End-to-End Framework for Online Handwritten Mathematical Expression Recognition. IEEE Transactions on Multimedia, 2019, 21, 221-233.	7.2	93
6	Multi-Scale Attention with Dense Encoder for Handwritten Mathematical Expression Recognition. , 2018, , .		91
7	Attention Based Fully Convolutional Network for Speech Emotion Recognition. , 2018, , .		75
8	A Regression Approach to Single-Channel Speech Separation Via High-Resolution Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1424-1437.	5.8	74
9	Speech Enhancement Based on Teacher–Student Deep Learning Using Improved Speech Presence Probability for Noise-Robust Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 2080-2091.	5.8	68
10	Adaptive Period Embedding for Representing Oriented Objects in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7247-7257.	6.3	64
11	A GRU-Based Encoder-Decoder Approach with Attention for Online Handwritten Mathematical Expression Recognition. , 2017, , .		55
12	SNR-Based Progressive Learning of Deep Neural Network for Speech Enhancement. , 0, , .		50
13	Speech separation of a target speaker based on deep neural networks. , 2014, , .		49
14	Hierarchical deep neural network for multivariate regression. Pattern Recognition, 2017, 63, 149-157.	8.1	49
15	Joint training of front-end and back-end deep neural networks for robust speech recognition. , 2015, , .		46
16	Speech separation based on improved deep neural networks with dual outputs of speech features for both target and interfering speakers. , 2014, , .		45
17	Densely Connected Progressive Learning for LSTM-Based Speech Enhancement. , 2018, , .		42
18	Exploring Emotion Features and Fusion Strategies for Audio-Video Emotion Recognition. , 2019, , .		42

#	Article	IF	Citations
19	A Gender Mixture Detection Approach to Unsupervised Single-Channel Speech Separation Based on Deep Neural Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1535-1546.	5.8	34
20	Sliding Line Point Regression for Shape Robust Scene Text Detection. , 2018, , .		32
21	A Cross-Entropy-Guided Measure (CEGM) for Assessing Speech Recognition Performance and Optimizing DNN-Based Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 106-117.	5.8	32
22	A Multiobjective Learning and Ensembling Approach to High-Performance Speech Enhancement With Compact Neural Network Architectures. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1185-1197.	5.8	31
23	Analyzing Upper Bounds on Mean Absolute Errors for Deep Neural Network-Based Vector-to-Vector Regression. IEEE Transactions on Signal Processing, 2020, 68, 3411-3422.	5.3	31
24	Radical analysis network for learning hierarchies of Chinese characters. Pattern Recognition, 2020, 103, 107305.	8.1	31
25	A Theory on Deep Neural Network Based Vector-to-Vector Regression With an Illustration of Its Expressive Power in Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1932-1943.	5.8	25
26	Multi-modal Attention Network for Handwritten Mathematical Expression Recognition. , 2019, , .		24
27	Split, Embed and Merge: An accurate table structure recognizer. Pattern Recognition, 2022, 126, 108565.	8.1	24
28	Rotated cascade R-CNN: A shape robust detector with coordinate regression. Pattern Recognition, 2019, 96, 106964.	8.1	23
29	Information Fusion in Attention Networks Using Adaptive and Multi-Level Factorized Bilinear Pooling for Audio-Visual Emotion Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2617-2629.	5.8	23
30	Global variance equalization for improving deep neural network based speech enhancement. , 2014, , .		21
31	Deep neural network based speech separation for robust speech recognition. , 2014, , .		21
32	A unified DNN approach to speaker-dependent simultaneous speech enhancement and speech separation in low SNR environments. Speech Communication, 2017, 95, 28-39.	2.8	21
33	Deep Fusion: An Attention Guided Factorized Bilinear Pooling for Audio-video Emotion Recognition. , 2019, , .		18
34	An iterative mask estimation approach to deep learning based multi-channel speech recognition. Speech Communication, 2019, 106, 31-43.	2.8	18
35	SRD: A Tree Structure Based Decoder for Online Handwritten Mathematical Expression Recognition. IEEE Transactions on Multimedia, 2021, 23, 2471-2480.	7.2	18
36	Using Generalized Gaussian Distributions to Improve Regression Error Modeling for Deep Learning-Based Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1919-1931.	5.8	17

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37	The First Multimodal Information Based Speech Processing (Misp) Challenge: Data, Tasks, Baselines And Results. , 2022, , .		16
38	Cross-language transfer learning for deep neural network based speech enhancement. , 2014, , .		15
39	Unsupervised single-channel speech separation via deep neural network for different gender mixtures. , 2016, , .		15
40	A Multi-Target SNR-Progressive Learning Approach to Regression Based Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1608-1619.	5.8	14
41	Stroke constrained attention network for online handwritten mathematical expression recognition. Pattern Recognition, 2021, 119, 108047.	8.1	13
42	Correlating subword articulation with lip shapes for embedding aware audio-visual speech enhancement. Neural Networks, 2021, 143, 171-182.	5.9	12
43	A multimodal attention fusion network with a dynamic vocabulary for TextVQA. Pattern Recognition, 2022, 122, 108214.	8.1	12
44	Dilated Nested Arrays With More Degrees of Freedom (DOFs) and Less Mutual Coupling—Part I: The Fundamental Geometry. IEEE Transactions on Signal Processing, 2022, 70, 2518-2531.	5.3	12
45	Speech Separation based on signal-noise-dependent deep neural networks for robust speech recognition. , 2015, , .		11
46	Tree-based data augmentation and mutual learning for offline handwritten mathematical expression recognition. Pattern Recognition, 2022, 132, 108910.	8.1	11
47	Sensor Selection for Relative Acoustic Transfer Function Steered Linearly-Constrained Beamformers. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1220-1232.	5.8	10
48	A regression approach to binaural speech segregation via deep neural network. , 2016, , .		9
49	Gaussian density guided deep neural network for single-channel speech enhancement. , 2017, , .		9
50	A Speaker-Dependent Approach to Separation of Far-Field Multi-Talker Microphone Array Speech for Front-End Processing in the CHiME-5 Challenge. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 827-840.	10.8	9
51	Joint Spatial and Radical Analysis Network For Distorted Chinese Character Recognition. , 2019, , .		9
52	A Progressive Learning Approach to Adaptive Noise and Speech Estimation for Speech Enhancement and Noisy Speech Recognition. , 2021, , .		9
53	Online Speaker Adaptation for LVCSR Based on Attention Mechanism. , 2018, , .		8
54	Mixed-Bandwidth Cross-Channel Speech Recognition via Joint Optimization of DNN-Based Bandwidth Expansion and Acoustic Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 559-571.	5.8	7

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55	A Speaker-Dependent Approach to Single-Channel Joint Speech Separation and Acoustic Modeling Based on Deep Neural Networks for Robust Recognition of Multi-Talker Speech. Journal of Signal Processing Systems, 2018, 90, 963-973.	2.1	6
56	Trajectory-based Radical Analysis Network for Online Handwritten Chinese Character Recognition. , 2018, , .		5
57	A Time Domain Progressive Learning Approach with SNR Constriction for Single-Channel Speech Enhancement and Recognition. , 2022, , .		5
58	A fusion approach to spoken language identification based on combining multiple phone recognizers and speech attribute detectors. , 2014, , .		4
59	An investigation of high-resolution modeling units of deep neural networks for acoustic scene classification. , 2017, , .		4
60	Speech Emotion Recognition Based on Acoustic Segment Model. , 2021, , .		4
61	A Transformer-based Radical Analysis Network for Chinese Character Recognition. , 2021, , .		4
62	An Improved VTS Feature Compensation using Mixture Models of Distortion and IVN Training for Noisy Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1601-1611.	5.8	3
63	Online LSTM-based Iterative Mask Estimation for Multi-Channel Speech Enhancement and ASR. , 2018, , .		3
64	DNN Training Based on Classic Gain Function for Single-channel Speech Enhancement and Recognition. , 2019, , .		3
65	Stroke Based Posterior Attention for Online Handwritten Mathematical Expression Recognition. , 2021, , .		3
66	Irrelevant Variability Normalization via Hierarchical Deep Neural Networks for Online Handwritten Chinese Character Recognition. , 2014, , .		2
67	A unified speaker-dependent speech separation and enhancement system based on deep neural networks. , 2015, , .		2
68	Boosting DNN-based speech enhancement via explicit transformations. , 2016, , .		2
69	On generating mixing noise signals with basis functions for simulating noisy speech and learning dnn-based speech enhancement models. , 2017, , .		2
70	An Investigation of Transfer Learning Mechanism for Acoustic Scene Classification. , 2018, , .		2
71	Online Speaker Adaptation Using Memory-Aware Networks for Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1025-1037.	5.8	2
72	MRD: A Memory Relation Decoder for Online Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 39-54.	1.3	2

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73	A Cross-Entropy-Guided (CEG) Measure for Speech Enhancement Front-End Assessing Performances of Back-End Automatic Speech Recognition. , 0, , .		2
74	Improving Separation-Based Speaker Diarization Via Iterative Model Refinement And Speaker Embedding Based Post-Processing. , 2022, , .		2
75	An experimental study on joint modeling of mixed-bandwidth data via deep neural networks for robust speech recognition. , 2016, , .		1
76	Attention-Based Gated Scaling Adaptive Acoustic Model for CTC-Based Speech Recognition. , 2020, , .		1
77	Radical Counter Network for Robust Chinese Character Recognition. , 2021, , .		1
78	KL-Divergence Regularized Deep Neural Network Adaptation for Low-Resource Speaker-Dependent Speech Enhancement. , 0, , .		1
79	A Maximum Likelihood Approach to Masking-based Speech Enhancement Using Deep Neural Network. , 2018, , .		0
80	The practice of speech and language processing in China. Communications of the ACM, 2021, 64, 81-87.	4.5	0