

# Jun Du

## List of Publications by Year in descending order

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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 multimodal attention fusion network with a dynamic vocabulary for TextVQA. Pattern Recognition, 2022, 122, 108214.	8.1	12
2	Split, Embed and Merge: An accurate table structure recognizer. Pattern Recognition, 2022, 126, 108565.	8.1	24
3	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
4	A Time Domain Progressive Learning Approach with SNR Constriction for Single-Channel Speech Enhancement and Recognition. , 2022, , .		5
5	The First Multimodal Information Based Speech Processing (Misp) Challenge: Data, Tasks, Baselines And Results. , 2022, , .		16
6	Improving Separation-Based Speaker Diarization Via Iterative Model Refinement And Speaker Embedding Based Post-Processing. , 2022, , .		2
7	Tree-based data augmentation and mutual learning for offline handwritten mathematical expression recognition. Pattern Recognition, 2022, 132, 108910.	8.1	11
8	SRD: A Tree Structure Based Decoder for Online Handwritten Mathematical Expression Recognition. IEEE Transactions on Multimedia, 2021, 23, 2471-2480.	7.2	18
9	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
10	Stroke Based Posterior Attention for Online Handwritten Mathematical Expression Recognition. , 2021, , .		3
11	Radical Counter Network for Robust Chinese Character Recognition. , 2021, , .		1
12	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
13	Speech Emotion Recognition Based on Acoustic Segment Model. , 2021, , .		4
14	A Transformer-based Radical Analysis Network for Chinese Character Recognition. , 2021, , .		4
15	A Progressive Learning Approach to Adaptive Noise and Speech Estimation for Speech Enhancement and Noisy Speech Recognition. , 2021, , .		9
16	Correlating subword articulation with lip shapes for embedding aware audio-visual speech enhancement. Neural Networks, 2021, 143, 171-182.	5.9	12
17	Stroke constrained attention network for online handwritten mathematical expression recognition. Pattern Recognition, 2021, 119, 108047.	8.1	13
18	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

#	ARTICLE	IF	CITATIONS
19	MRD: A Memory Relation Decoder for Online Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 39-54.	1.3	2
20	The practice of speech and language processing in China. Communications of the ACM, 2021, 64, 81-87.	4.5	0
21	On Mean Absolute Error for Deep Neural Network Based Vector-to-Vector Regression. IEEE Signal Processing Letters, 2020, 27, 1485-1489.	3.6	132
22	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
23	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
24	Attention-Based Gated Scaling Adaptive Acoustic Model for CTC-Based Speech Recognition. , 2020, , .		1
25	Adaptive Period Embedding for Representing Oriented Objects in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7247-7257.	6.3	64
26	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
27	Radical analysis network for learning hierarchies of Chinese characters. Pattern Recognition, 2020, 103, 107305.	8.1	31
28	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
29	Rotated cascade R-CNN: A shape robust detector with coordinate regression. Pattern Recognition, 2019, 96, 106964.	8.1	23
30	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
31	Exploring Emotion Features and Fusion Strategies for Audio-Video Emotion Recognition. , 2019, , .		42
32	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
33	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
34	Speech Enhancement Based on Teacher’s 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
35	DNN Training Based on Classic Gain Function for Single-channel Speech Enhancement and Recognition. , 2019, , .		3
36	Deep Fusion: An Attention Guided Factorized Bilinear Pooling for Audio-video Emotion Recognition. , 2019, , .		18

#	ARTICLE	IF	CITATIONS
37	Multi-modal Attention Network for Handwritten Mathematical Expression Recognition. , 2019, , .		24
38	Joint Spatial and Radical Analysis Network For Distorted Chinese Character Recognition. , 2019, , .		9
39	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
40	An iterative mask estimation approach to deep learning based multi-channel speech recognition. Speech Communication, 2019, 106, 31-43.	2.8	18
41	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
42	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
43	Online LSTM-based Iterative Mask Estimation for Multi-Channel Speech Enhancement and ASR. , 2018, , .		3
44	Multi-Scale Attention with Dense Encoder for Handwritten Mathematical Expression Recognition. , 2018, , .		91
45	Attention Based Fully Convolutional Network for Speech Emotion Recognition. , 2018, , .		75
46	Sliding Line Point Regression for Shape Robust Scene Text Detection. , 2018, , .		32
47	Trajectory-based Radical Analysis Network for Online Handwritten Chinese Character Recognition. , 2018, , .		5
48	An Investigation of Transfer Learning Mechanism for Acoustic Scene Classification. , 2018, , .		2
49	A Maximum Likelihood Approach to Masking-based Speech Enhancement Using Deep Neural Network. , 2018, , .		0
50	Densely Connected Progressive Learning for LSTM-Based Speech Enhancement. , 2018, , .		42
51	Online Speaker Adaptation for LVCSR Based on Attention Mechanism. , 2018, , .		8
52	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
53	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
54	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

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55	An investigation of high-resolution modeling units of deep neural networks for acoustic scene classification. , 2017, , .		4
56	Hierarchical deep neural network for multivariate regression. Pattern Recognition, 2017, 63, 149-157.	8.1	49
57	Gaussian density guided deep neural network for single-channel speech enhancement. , 2017, , .		9
58	On generating mixing noise signals with basis functions for simulating noisy speech and learning dnn-based speech enhancement models. , 2017, , .		2
59	A GRU-Based Encoder-Decoder Approach with Attention for Online Handwritten Mathematical Expression Recognition. , 2017, , .		55
60	Unsupervised single-channel speech separation via deep neural network for different gender mixtures. , 2016, , .		15
61	Boosting DNN-based speech enhancement via explicit transformations. , 2016, , .		2
62	A regression approach to binaural speech segregation via deep neural network. , 2016, , .		9
63	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
64	An experimental study on joint modeling of mixed-bandwidth data via deep neural networks for robust speech recognition. , 2016, , .		1
65	A unified speaker-dependent speech separation and enhancement system based on deep neural networks. , 2015, , .		2
66	Joint training of front-end and back-end deep neural networks for robust speech recognition. , 2015, , .		46
67	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
68	Speech Separation based on signal-noise-dependent deep neural networks for robust speech recognition. , 2015, , .		11
69	Irrelevant Variability Normalization via Hierarchical Deep Neural Networks for Online Handwritten Chinese Character Recognition. , 2014, , .		2
70	Cross-language transfer learning for deep neural network based speech enhancement. , 2014, , .		15
71	Speech separation based on improved deep neural networks with dual outputs of speech features for both target and interfering speakers. , 2014, , .		45
72	Global variance equalization for improving deep neural network based speech enhancement. , 2014, , .		21

#	ARTICLE	IF	CITATIONS
73	Deep neural network based speech separation for robust speech recognition. , 2014, , .		21
74	An Experimental Study on Speech Enhancement Based on Deep Neural Networks. IEEE Signal Processing Letters, 2014, 21, 65-68.	3.6	692
75	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
76	A fusion approach to spoken language identification based on combining multiple phone recognizers and speech attribute detectors. , 2014, , .		4
77	Speech separation of a target speaker based on deep neural networks. , 2014, , .		49
78	SNR-Based Progressive Learning of Deep Neural Network for Speech Enhancement. , 0, , .		50
79	A Cross-Entropy-Guided (CEG) Measure for Speech Enhancement Front-End Assessing Performances of Back-End Automatic Speech Recognition. , 0, , .		2
80	KL-Divergence Regularized Deep Neural Network Adaptation for Low-Resource Speaker-Dependent Speech Enhancement. , 0, , .		1