Nam Soo Kim

List of Publications by Year
in descending order

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		471061	433756
94	1,177	17	31
papers	citations	h-index	g-index

94	94	94	688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Voice activity detection based on multiple statistical models. IEEE Transactions on Signal Processing, 2006, 54, 1965-1976.	3.2	178
2	Spectral enhancement based on global soft decision. IEEE Signal Processing Letters, 2000, 7, 108-110.	2.1	136
3	Statistical modeling of speech signals based on generalized gamma distribution. IEEE Signal Processing Letters, 2005, 12, 258-261.	2.1	80
4	NMF-based Target Source Separation Using Deep Neural Network. IEEE Signal Processing Letters, 2015, 22, 229-233.	2.1	67
5	NMF-Based Speech Enhancement Using Bases Update. IEEE Signal Processing Letters, 2015, 22, 450-454.	2.1	59
6	Image probability distribution based on generalized gamma function. IEEE Signal Processing Letters, 2005, 12, 325-328.	2.1	34
7	IMM-based estimation for slowly evolving environments. IEEE Signal Processing Letters, 1998, 5, 146-149.	2.1	33
8	Acoustic Data Transmission Based on Modulated Complex Lapped Transform. IEEE Signal Processing Letters, 2010, 17, 67-70.	2.1	31
9	DNN-Based Voice Activity Detection with Multi-Task Learning. IEICE Transactions on Information and Systems, 2016, E99.D, 550-553.	0.4	27
10	Implementation of HMM-Based Human Activity Recognition Using Single Triaxial Accelerometer. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1379-1383.	0.2	24
11	A Statistical Model-Based Residual Echo Suppression. IEEE Signal Processing Letters, 2007, 14, 758-761.	2.1	23
12	Robust Time-Delay Estimation for Acoustic Indoor Localization in Reverberant Environments. IEEE Signal Processing Letters, 2017, 24, 226-230.	2.1	23
13	On Using Multiple Models for Automatic Speech Segmentation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2202-2212.	3.8	21
14	Spectro-Temporal Filtering for Multichannel Speech Enhancement in Short-Time Fourier Transform Domain. IEEE Signal Processing Letters, 2014, 21, 352-355.	2.1	21
15	Global Soft Decision Employing Support Vector Machine For Speech Enhancement. IEEE Signal Processing Letters, 2009, 16, 57-60.	2.1	20
16	Adaptive Knowledge Distillation Based on Entropy. , 2020, , .		18
17	Feature compensation based on switching linear dynamic model. IEEE Signal Processing Letters, 2005, 12, 473-476.	2.1	17
18	Perceptual Reinforcement of Speech Signal Based on Partial Specific Loudness. IEEE Signal Processing Letters, 2007, 14, 887-890.	2.1	17

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19	Robust Data Hiding for MCLT Based Acoustic Data Transmission. IEEE Signal Processing Letters, 2010, 17, 679-682.	2.1	17
20	Frequency-Domain Double-Talk Detection Based on the Gaussian Mixture Model. IEEE Signal Processing Letters, 2010, 17, 453-456.	2.1	17
21	Audio Fingerprinting Based on Multiple Hashing in DCT Domain. IEEE Signal Processing Letters, 2009, 16, 525-528.	2.1	15
22	Two-stage noise aware training using asymmetric deep denoising autoencoder. , 2016, , .		15
23	A Multi-Resolution Approach to GAN-Based Speech Enhancement. Applied Sciences (Switzerland), 2021, 11, 721.	1.3	15
24	Rapid speaker adaptation using probabilistic principal component analysis. IEEE Signal Processing Letters, 2001, 8, 180-183.	2.1	13
25	Voice Activity Detection based on Generalized Gamma Distribution. , 0, , .		13
26	Analysis and Improvement of Speech/Music Classification for 3GPP2 SMV Based on GMM. IEEE Signal Processing Letters, 2008, 15, 103-106.	2.1	13
27	Factored MLLR Adaptation. IEEE Signal Processing Letters, 2011, 18, 99-102.	2.1	12
28	Robust correlation estimation for EMAP-based speaker adaptation. IEEE Signal Processing Letters, 2001, 8, 184-186.	2.1	11
29	Reverberation and Noise Robust Feature Compensation Based on IMM. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1598-1611.	3.8	11
30	TutorNet: Towards Flexible Knowledge Distillation for End-to-End Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1626-1638.	4.0	11
31	Stereophonic Acoustic Echo Suppression Incorporating Spectro-Temporal Correlations. IEEE Signal Processing Letters, 2014, 21, 316-320.	2.1	10
32	Frame-correlated hidden Markov model based on extended logarithmic pool. IEEE Transactions on Speech and Audio Processing, 1997, 5, 149-160.	2.0	9
33	Feature Compensation Based on Soft Decision. IEEE Signal Processing Letters, 2004, 11, 378-381.	2.1	9
34	Target Source Separation Based on Discriminative Nonnegative Matrix Factorization Incorporating Cross-Reconstruction Error. IEICE Transactions on Information and Systems, 2015, E98.D, 2017-2020.	0.4	9
35	Disentangled Speaker and Nuisance Attribute Embedding for Robust Speaker Verification. IEEE Access, 2020, 8, 141838-141849.	2.6	9
36	Deleted strategy for MMI-based HMM training. IEEE Transactions on Speech and Audio Processing, 1998, 6, 299-303.	2.0	7

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37	Speech Feature Mapping based on Switching Linear Dynamic System. IEEE Transactions on Audio Speech and Language Processing, 2011, , .	3.8	7
38	Decision-directed speech power spectral density matrix estimation for multichannel speech enhancement. Journal of the Acoustical Society of America, 2017, 141, EL228-EL233.	0.5	7
39	A new double-talk detector using echo path estimation. , 2002, , .		6
40	A preprocessor for low-bit-rate speech coding. IEEE Signal Processing Letters, 2002, 9, 318-321.	2.1	6
41	Signal Modification for Robust Speech Coding. IEEE Transactions on Speech and Audio Processing, 2004, 12, 9-18.	2.0	6
42	DCT based multiple hashing technique for robust audio fingerprinting. , 2009, , .		6
43	Quality Enhancement of Audio Watermarking for Data Transmission in Aerial Space Based on Segmental SNR Adjustment. , 2012, , .		6
44	Integrated DNN-based model adaptation technique for noise-robust speech recognition. , 2017, , .		6
45	EMAP-based speaker adaptation with robust correlation estimation. , 0, , .		5
46	Discriminative Training for Concatenative Speech Synthesis. IEEE Signal Processing Letters, 2004, 11, 40-43.	2.1	5
47	Speech enhancement combining statistical models and NMF with update of speech and noise bases. , 2014, , .		5
48	Multi-microphone approach for reliable acoustic data transmission. , 2016, , .		5
49	Switching linear dynamic transducer for stereo data based speech feature mapping. , 2011, , .		4
50	Adversarially Learned Total Variability Embedding for Speaker Recognition with Random Digit Strings. Sensors, 2019, 19, 4709.	2.1	4
51	Gated Recurrent Context: Softmax-Free Attention for Online Encoder-Decoder Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 710-719.	4.0	4
52	Rapid online adaptation based on transformation space model evolution. IEEE Transactions on Speech and Audio Processing, 2005, 13, 194-202.	2.0	3
53	A new structural approach in system identification with generalized analysis-by-synthesis for robust speech coding. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 747-751.	3.8	3
54	Cepstral domain feature compensation based on diagonal approximation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3

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55	Speech reinforcement based on partial masking effect. , 2009, , .		3
56	On Detecting Target Acoustic Signals Based on Non-negative Matrix Factorization. IEICE Transactions on Information and Systems, 2010, E93-D, 922-925.	0.4	3
57	Factored Maximum Penalized Likelihood Kernel Regression for HMM-Based Style-Adaptive Speech Synthesis. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 251-261.	7.3	3
58	Incremental approach to NMF basis estimation for audio source separation. , 2016, , .		3
59	Memory Attention: Robust Alignment Using Gating Mechanism for End-to-End Speech Synthesis. IEEE Signal Processing Letters, 2020, 27, 2004-2008.	2.1	3
60	Time-varying noise compensation using multiple Kalman filters. , 1999, , .		2
61	Online adaptation using speatransformation space model evolution. , 0, , .		2
62	Signal modification for ADPCM based on analysis-by-synthesis framework. IEEE Signal Processing Letters, 2006, 13, 177-179.	2.1	2
63	A data-driven residual gain approach for two-stage speech enhancement. , 2011, , .		2
64	Feature enhancement error compensation for noise robust speech recognition. , 2012, , .		2
65	Statistical Approaches to Excitation Modeling in HMM-Based Speech Synthesis. IEICE Transactions on Information and Systems, 2013, E96.D, 379-382.	0.4	2
66	Detecting oxymoron in a single statement. , 2017, , .		2
67	Neurally Optimized Decoder for Low Bitrate Speech Codec. IEEE Signal Processing Letters, 2022, 29, 244-248.	2.1	2
68	Pro-rejection of distorted speech for speech recognition in wireless communication channel. , 0, , .		1
69	An approach to robust unsupervised speaker adaptation. IEEE Signal Processing Letters, 2005, 12, 469-472.	2.1	1
70	Estimation of Phone Mismatch Penalty Matrices for Two-Stage Keyword Spotting. IEICE Transactions on Information and Systems, 2010, E93.D, 2331-2335.	0.4	1
71	Speech Enhancement Based on Data-Driven Residual Gain Estimation. IEICE Transactions on Information and Systems, 2011, E94-D, 2537-2540.	0.4	1
72	Outlier Detection and Removal for HMM-Based Speech Synthesis with an Insufficient Speech Database. IEICE Transactions on Information and Systems, 2012, E95.D, 2351-2354.	0.4	1

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73	Spectral Magnitude Adjustment for MCLT-Based Acoustic Data Transmission. IEICE Transactions on Information and Systems, 2012, E95.D, 1523-1526.	0.4	1
74	DNN-based voice activity detection with local feature shift technique. , 2016, , .		1
75	NMF-based source separation utilizing prior knowledge on encoding vector. , 2016, , .		1
76	Weakly labeled acoustic event detection using local detector and global classifier. , 2017, , .		1
77	Bootstrap Equilibrium and Probabilistic Speaker Representation Learning for Self-Supervised Speaker Verification. IEEE Access, 2021, 9, 167615-167627.	2.6	1
78	Application of sequential estimation to time-varying environment compensation [in speech recognition]. , 0, , .		0
79	Filtering on hidden Markov models. IEEE Signal Processing Letters, 2000, 7, 253-255.	2.1	0
80	Generalized analysis-by-synthesis based on system identification. , 2002, , .		0
81	Feature Compensation using More Accurate Statistics of Modeling Error. , 2007, , .		0
82	Feature Compensation Incorporating Modeling Error Statistics. IEEE Signal Processing Letters, 2007, 14, 492-495.	2.1	0
83	Computationally Efficient Cepstral Domain Feature Compensation. IEICE Transactions on Information and Systems, 2009, E92-D, 86-89.	0.4	0
84	Study of Prominence Detection Based on Various Phone-Specific Features. IEICE Transactions on Information and Systems, 2010, E93-D, 2327-2330.	0.4	0
85	Artificial stereo data generation for speech feature mapping. , 2012, , .		0
86	IMM-based feature compensation robust to slowly time-varying noise and reverberation. , 2013, , .		0
87	Crossband filtering for stereophonic acoustic echo suppression. , 2014, , .		0
88	Reverberation and noise robust feature enhancement using multiple inputs. , 2014, , .		0
89	Speaker Adaptation Using Nonlinear Regression Techniques for HMM-Based Speech Synthesis. , 2014, , .		0
90	Supervised Denoising Pre-Training for Robust ASR with DNN-HMM. IEICE Transactions on Information and Systems, 2015, E98.D, 2345-2348.	0.4	0

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91	Acoustic modeling and parameter generation using relevance vector machines for speech synthesis. , 2015, , .		0
92	Stochastic DNN-HMM Training for Robust ASR. , 2018, , .		0
93	Chiral symmetry and taste symmetry from the eigenvalue spectrum of staggered Dirac operators. Physical Review D, 2021, 104, .	1.6	0
94	A Controllable Multi-Lingual Multi-Speaker Multi-Style Text-to-Speech Synthesis With Multivariate Information Minimization. IEEE Signal Processing Letters, 2022, 29, 55-59.	2.1	0