

# Nam Soo Kim

## 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.

72  
papers

757  
citations

15  
h-index

25  
g-index

94  
ext. papers

946  
ext. citations

2.4  
avg, IF

4.17  
L-index

#	Paper	IF	Citations
72	Voice activity detection based on multiple statistical models. <i>IEEE Transactions on Signal Processing</i> , <b>2006</b> , 54, 1965-1976	4.8	116
71	Spectral enhancement based on global soft decision. <i>IEEE Signal Processing Letters</i> , <b>2000</b> , 7, 108-110	3.2	99
70	Statistical modeling of speech signals based on generalized gamma distribution. <i>IEEE Signal Processing Letters</i> , <b>2005</b> , 12, 258-261	3.2	60
69	NMF-based Target Source Separation Using Deep Neural Network. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 229-233	3.2	44
68	NMF-Based Speech Enhancement Using Bases Update. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 450-454	3.2	40
67	Image probability distribution based on generalized gamma function. <i>IEEE Signal Processing Letters</i> , <b>2005</b> , 12, 325-328	3.2	29
66	Acoustic Data Transmission Based on Modulated Complex Lapped Transform. <i>IEEE Signal Processing Letters</i> , <b>2010</b> , 17, 67-70	3.2	23
65	DNN-Based Voice Activity Detection with Multi-Task Learning. <i>IEICE Transactions on Information and Systems</i> , <b>2016</b> , E99.D, 550-553	0.6	21
64	Implementation of HMM-Based Human Activity Recognition Using Single Triaxial Accelerometer. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2010</b> , E93-A, 1379-1383	0.4	19
63	IMM-based estimation for slowly evolving environments. <i>IEEE Signal Processing Letters</i> , <b>1998</b> , 5, 146-149	3.2	17
62	Robust Time-Delay Estimation for Acoustic Indoor Localization in Reverberant Environments. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 226-230	3.2	16
61	Spectro-Temporal Filtering for Multichannel Speech Enhancement in Short-Time Fourier Transform Domain. <i>IEEE Signal Processing Letters</i> , <b>2014</b> , 21, 352-355	3.2	16
60	Frequency-Domain Double-Talk Detection Based on the Gaussian Mixture Model. <i>IEEE Signal Processing Letters</i> , <b>2010</b> , 17, 453-456	3.2	15
59	Global Soft Decision Employing Support Vector Machine For Speech Enhancement. <i>IEEE Signal Processing Letters</i> , <b>2009</b> , 16, 57-60	3.2	15
58	A Statistical Model-Based Residual Echo Suppression. <i>IEEE Signal Processing Letters</i> , <b>2007</b> , 14, 758-761	3.2	15
57	On Using Multiple Models for Automatic Speech Segmentation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2007</b> , 15, 2202-2212		14
56	Perceptual Reinforcement of Speech Signal Based on Partial Specific Loudness. <i>IEEE Signal Processing Letters</i> , <b>2007</b> , 14, 887-890	3.2	14

55	Robust Data Hiding for MCLT Based Acoustic Data Transmission. <i>IEEE Signal Processing Letters</i> , <b>2010</b> , 17, 679-682	3.2	12
54	Audio Fingerprinting Based on Multiple Hashing in DCT Domain. <i>IEEE Signal Processing Letters</i> , <b>2009</b> , 16, 525-528	3.2	12
53	Analysis and Improvement of Speech/Music Classification for 3GPP2 SMV Based on GMM. <i>IEEE Signal Processing Letters</i> , <b>2008</b> , 15, 103-106	3.2	12
52	Rapid speaker adaptation using probabilistic principal component analysis. <i>IEEE Signal Processing Letters</i> , <b>2001</b> , 8, 180-183	3.2	12
51	Feature compensation based on switching linear dynamic model. <i>IEEE Signal Processing Letters</i> , <b>2005</b> , 12, 473-476	3.2	11
50	Robust correlation estimation for EMAP-based speaker adaptation. <i>IEEE Signal Processing Letters</i> , <b>2001</b> , 8, 184-186	3.2	9
49	Two-stage noise aware training using asymmetric deep denoising autoencoder <b>2016</b> ,		8
48	Stereophonic Acoustic Echo Suppression Incorporating Spectro-Temporal Correlations. <i>IEEE Signal Processing Letters</i> , <b>2014</b> , 21, 316-320	3.2	7
47	Factored MLLR Adaptation. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 99-102	3.2	7
46	Reverberation and Noise Robust Feature Compensation Based on IMM. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 1598-1611		6
45	Quality Enhancement of Audio Watermarking for Data Transmission in Aerial Space Based on Segmental SNR Adjustment <b>2012</b> ,		6
44	Decision-directed speech power spectral density matrix estimation for multichannel speech enhancement. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, EL228	2.2	5
43	Target Source Separation Based on Discriminative Nonnegative Matrix Factorization Incorporating Cross-Reconstruction Error. <i>IEICE Transactions on Information and Systems</i> , <b>2015</b> , E98.D, 2017-2020	0.6	5
42	Discriminative training for concatenative speech synthesis. <i>IEEE Signal Processing Letters</i> , <b>2004</b> , 11, 40-43,	3.2	5
41	Feature compensation based on soft decision. <i>IEEE Signal Processing Letters</i> , <b>2004</b> , 11, 378-381	3.2	5
40	Signal modification for robust speech coding. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2004</b> , 12, 9-18		4
39	Deleted strategy for MMI-based HMM training. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>1998</b> , 6, 299-303		4
38	Multi-microphone approach for reliable acoustic data transmission <b>2016</b> ,		3

37	Integrated DNN-based model adaptation technique for noise-robust speech recognition <b>2017</b> ,		3
36	Speech enhancement combining statistical models and NMF with update of speech and noise bases <b>2014</b> ,		3
35	A new double-talk detector using echo path estimation <b>2002</b> ,		3
34	A preprocessor for low-bit-rate speech coding. <i>IEEE Signal Processing Letters</i> , <b>2002</b> , 9, 318-321	3.2	3
33	Memory Attention: Robust Alignment Using Gating Mechanism for End-to-End Speech Synthesis. <i>IEEE Signal Processing Letters</i> , <b>2020</b> , 27, 2004-2008	3.2	3
32	Adversarially Learned Total Variability Embedding for Speaker Recognition with Random Digit Strings. <i>Sensors</i> , <b>2019</b> , 19,	3.8	3
31	TutorNet: Towards Flexible Knowledge Distillation for End-to-End Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 1626-1638	3.6	3
30	Factored Maximum Penalized Likelihood Kernel Regression for HMM-Based Style-Adaptive Speech Synthesis. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2014</b> , 8, 251-261	7.5	2
29	Switching linear dynamic transducer for stereo data based speech feature mapping <b>2011</b> ,		2
28	On Detecting Target Acoustic Signals Based on Non-negative Matrix Factorization. <i>IEICE Transactions on Information and Systems</i> , <b>2010</b> , E93-D, 922-925	0.6	2
27	Frame-correlated hidden Markov model based on extended logarithmic pool. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>1997</b> , 5, 149-160		2
26	A new structural approach in system identification with generalized analysis-by-synthesis for robust speech coding. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2006</b> , 14, 747-751		2
25	Signal modification for ADPCM based on analysis-by-synthesis framework. <i>IEEE Signal Processing Letters</i> , <b>2006</b> , 13, 177-179	3.2	2
24	Rapid online adaptation based on transformation space model evolution. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2005</b> , 13, 194-202		2
23	Disentangled Speaker and Nuisance Attribute Embedding for Robust Speaker Verification. <i>IEEE Access</i> , <b>2020</b> , 8, 141838-141849	3.5	2
22	A Multi-Resolution Approach to GAN-Based Speech Enhancement. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 721	2.6	2
21	Weakly labeled acoustic event detection using local detector and global classifier <b>2017</b> ,		1
20	Feature enhancement error compensation for noise robust speech recognition <b>2012</b> ,		1

19	Statistical Approaches to Excitation Modeling in HMM-Based Speech Synthesis. <i>IEICE Transactions on Information and Systems</i> , <b>2013</b> , E96.D, 379-382	0.6	1
18	Speech reinforcement based on partial masking effect <b>2009</b> ,		1
17	A data-driven residual gain approach for two-stage speech enhancement <b>2011</b> ,		1
16	Outlier Detection and Removal for HMM-Based Speech Synthesis with an Insufficient Speech Database. <i>IEICE Transactions on Information and Systems</i> , <b>2012</b> , E95.D, 2351-2354	0.6	1
15	Spectral Magnitude Adjustment for MCLT-Based Acoustic Data Transmission. <i>IEICE Transactions on Information and Systems</i> , <b>2012</b> , E95.D, 1523-1526	0.6	1
14	An approach to robust unsupervised speaker adaptation. <i>IEEE Signal Processing Letters</i> , <b>2005</b> , 12, 469-472	3.2	1
13	Adaptive Knowledge Distillation Based on Entropy <b>2020</b> ,		1
12	Incremental approach to NMF basis estimation for audio source separation <b>2016</b> ,		1
11	Neurally Optimized Decoder for Low Bitrate Speech Codec. <i>IEEE Signal Processing Letters</i> , <b>2021</b> , 1-1	3.2	0
10	Bootstrap Equilibrium and Probabilistic Speaker Representation Learning for Self-Supervised Speaker Verification. <i>IEEE Access</i> , <b>2021</b> , 9, 167615-167627	3.5	0
9	Gated Recurrent Context: Softmax-Free Attention for Online Encoder-Decoder Speech Recognition. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 710-719	3.6	0
8	Supervised Denoising Pre-Training for Robust ASR with DNN-HMM. <i>IEICE Transactions on Information and Systems</i> , <b>2015</b> , E98.D, 2345-2348	0.6	
7	Speech Enhancement Based on Data-Driven Residual Gain Estimation. <i>IEICE Transactions on Information and Systems</i> , <b>2011</b> , E94-D, 2537-2540	0.6	
6	Computationally Efficient Cepstral Domain Feature Compensation. <i>IEICE Transactions on Information and Systems</i> , <b>2009</b> , E92-D, 86-89	0.6	
5	Study of Prominence Detection Based on Various Phone-Specific Features. <i>IEICE Transactions on Information and Systems</i> , <b>2010</b> , E93-D, 2327-2330	0.6	
4	Estimation of Phone Mismatch Penalty Matrices for Two-Stage Keyword Spotting. <i>IEICE Transactions on Information and Systems</i> , <b>2010</b> , E93.D, 2331-2335	0.6	
3	Feature Compensation Incorporating Modeling Error Statistics. <i>IEEE Signal Processing Letters</i> , <b>2007</b> , 14, 492-495	3.2	
2	Filtering on hidden Markov models. <i>IEEE Signal Processing Letters</i> , <b>2000</b> , 7, 253-255	3.2	

1 A Controllable Multi-lingual Multi-speaker Multi-style Text-to-Speech Synthesis with Multivariate Information Minimization. *IEEE Signal Processing Letters*, **2021**, 1-1

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