

Tim Fingscheidt

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

585
citations

933447

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839539

18
g-index

39
all docs

39
docs citations

39
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational analysis of the neural bases of Bayesian inference. <i>NeuroImage</i> , 2015, 106, 222-237.	4.2	90
2	A Data-Driven Approach to A Priori SNR Estimation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, 19, 186-195.	3.2	57
3	Convolutional Neural Networks to Enhance Coded Speech. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 663-678.	5.8	44
4	Artificial Speech Bandwidth Extension Using Deep Neural Networks for Wideband Spectral Envelope Estimation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018, 26, 71-83.	5.8	37
5	Instantaneous A Priori SNR Estimation by Cepstral Excitation Manipulation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 1592-1605.	5.8	31
6	Fully Convolutional Recurrent Networks for Speech Enhancement. , 2020, , .		26
7	On the Robustness of Redundant Teacher-Student Frameworks for Semantic Segmentation. , 2019, , .		25
8	The Vulnerability of Semantic Segmentation Networks to Adversarial Attacks in Autonomous Driving: Enhancing Extensive Environment Sensing. <i>IEEE Signal Processing Magazine</i> , 2021, 38, 42-52.	5.6	23
9	Speech enhancement by LSTM-based noise suppression followed by CNN-based speech restoration. <i>Eurasip Journal on Advances in Signal Processing</i> , 2020, 2020, .	1.7	22
10	Unsupervised BatchNorm Adaptation (UBNA): A Domain Adaptation Method for Semantic Segmentation Without Using Source Domain Representations. , 2022, , .		21
11	MMSE speech enhancement under speech presence uncertainty assuming (generalized) gamma speech priors throughout. , 2012, , .		18
12	DNN-Supported Speech Enhancement With Cepstral Estimation of Both Excitation and Envelope. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018, 26, 2460-2474.	5.8	16
13	A Perceptual Weighting Filter Loss for DNN Training In Speech Enhancement. , 2019, , .		16
14	Artificial bandwidth extension using deep neural networks for spectral envelope estimation. , 2016, , .		15
15	Separated Noise Suppression and Speech Restoration: Lstm-Based Speech Enhancement in Two Stages. , 2019, , .		15
16	SVDistNet: Self-Supervised Near-Field Distance Estimation on Surround View Fisheye Cameras. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 10252-10261.	8.0	13
17	AEC in A Netshell: on Target and Topology Choices for FCRN Acoustic Echo Cancellation. , 2021, , .		11
18	Robust Ultra-Low Latency Soft-Decision Decoding of Linear PCM Audio. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 2324-2336.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Speech enhancement using a joint map estimator with Gaussian mixture model for (non-)stationary noise. , 2011, , .		9
20	Online Performance Prediction of Perception DNNs by Multi-Task Learning With Depth Estimation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4670-4683.	8.0	9
21	DNN-Based Cepstral Excitation Manipulation for Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1803-1814.	5.8	8
22	Components loss for neural networks in mask-based speech enhancement. Eurasip Journal on Audio, Speech, and Music Processing, 2021, 2021, .	2.1	8
23	Deep Noise Suppression with Non-Intrusive PESQNet Supervision Enabling the Use of Real Training Data. , 0, , .		8
24	Improving Convolutional Recurrent Neural Networks for Speech Emotion Recognition. , 2021, , .		8
25	A DNN regression approach to speech enhancement by artificial bandwidth extension. , 2017, , .		6
26	An Unsupervised Temporal Consistency (TC) Loss to Improve the Performance of Semantic Segmentation Networks. , 2021, , .		6
27	From a Fourier-Domain Perspective on Adversarial Examples to a Wiener Filter Defense for Semantic Segmentation. , 2021, , .		6
28	Deep Noise Suppression Maximizing Non-Differentiable PESQ Mediated by a Non-Intrusive PESQNet. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1572-1585.	5.8	6
29	Joint source and channel coding: from the beginning until the "EXIT"™. European Transactions on Telecommunications, 2007, 18, 851-858.	1.2	4
30	Sinusoidal-Based Lowband Synthesis for Artificial Speech Bandwidth Extension. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 765-776.	5.8	4
31	Improving Online Performance Prediction for Semantic Segmentation. , 2021, , .		4
32	Improving Transferability of Generated Universal Adversarial Perturbations for Image Classification and Segmentation. , 2022, , 171-196.		3
33	A Two-Dimensional Channel Model for Digital Data Storage on Microfilm. IEEE Transactions on Communications, 2011, 59, 2046-2050.	7.8	2
34	A Priori SNR Estimation Using Discriminative Non-Negative Matrix Factorization. , 2018, , .		2
35	Improvement of Speech Residuals for Speech Enhancement. , 2019, , .		1
36	Improved MPEG-4 high-efficiency AAC with variable-length soft-decision decoding of the quantized spectral coefficients. China Communications, 2019, 16, 65-82.	3.2	1

#	ARTICLE	IF	CITATIONS
37	A hypothesis of local intrinsic cortical signal processing. Medical Hypotheses, 2011, 76, 665-667.	1.5	0
38	A Priori SNR Computation for Speech Enhancement Based on Cepstral Envelope Estimation. , 2018, , .		0