Deepak Baby

List of Publications by Year
in descending order

17 papers	194 citations	1937685 4 h-index	2053705 5 g-index
18 all docs	18 docs citations	18 times ranked	128 citing authors

#	Article	IF	Citations
1	A convolutional neural-network model of human cochlear mechanics and filter tuning for real-time applications. Nature Machine Intelligence, 2021, 3, 134-143.	16.0	22
2	Speech Dereverberation Using Variational Autoencoders. , 2021, , .		1
3	A convolutional neural-network framework for modelling auditory sensory cells and synapses. Communications Biology, 2021, 4, 827.	4.4	16
4	Automated speech analysis to improve TMS-based language mapping: Algorithm and proof of concept. Brain Stimulation, 2020, 13, 267-269.	1.6	3
5	Sergan: Speech Enhancement Using Relativistic Generative Adversarial Networks with Gradient Penalty. , 2019, , .		59
6	Joint Denoising and Dereverberation Using Exemplar-Based Sparse Representations and Decaying Norm Constraint. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 2024-2035.	5.8	6
7	Supervised speech dereverberation in noisy environments using exemplar-based sparse representations. , 2016, , .		7
8	Exemplar-based speech enhancement for deep neural network based automatic speech recognition. , 2015, , .		16
9	Hybrid input spaces for exemplar-based noise robust speech recognition using coupled dictionaries. , 2015, , .		0
10	Noise robust exemplar matching with coupled dictionaries for single-channel speech enhancement. , 2015, , .		1
11	Coupled Dictionaries for Exemplar-Based Speech Enhancement and Automatic Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1788-1799.	5.8	29
12	Coupled dictionary training for exemplar-based speech enhancement. , 2014, , .		14
13	Exemplar-based noise robust automatic speech recognition using modulation spectrogram features. , 2014, , .		7
14	Ordered Orthogonal Matching Pursuit. , 2012, , .		1
15	Hearing-Impaired Bio-Inspired Cochlear Models for Real-Time Auditory Applications. , 0, , .		3
16	Investigating modulation spectrogram features for deep neural network-based automatic speech recognition. , 0, , .		5
17	Biophysically-inspired Features Improve the Generalizability of Neural Network-based Speech Enhancement Systems. , 0, , .		4