Philip J B Jackson

List of Publications by Year
in descending order

75	793	687363 13	642732 23
papers	citations	h-index	g-index

81	81	81	518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acoustic contrast, planarity and robustness of sound zone methods using a circular loudspeaker array. Journal of the Acoustical Society of America, 2014, 135, 1929-1940.	1.1	73
2	Pitch-scaled estimation of simultaneous voiced and turbulence-noise components in speech. IEEE Transactions on Speech and Audio Processing, 2001, 9, 713-726.	1.5	60
3	Unsupervised Feature Learning Based on Deep Models for Environmental Audio Tagging. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1230-1241.	5.8	54
4	Personal audio with a planar bright zone. Journal of the Acoustical Society of America, 2014, 136, 1725-1735.	1.1	51
5	Object-Based Reverberation for Spatial Audio. AES: Journal of the Audio Engineering Society, 2017, 65, 66-77.	1.0	35
6	Joint Mixing Vector and Binaural Model Based Stereo Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1434-1448.	5.8	34
7	Immersive Spatial Audio Reproduction for VR/AR Using Room Acoustic Modelling from 360Â° Images. , 2019, , .		30
8	Statistical identification of articulation constraints in the production of speech. Speech Communication, 2009, 51, 695-710.	2.8	29
9	Acoustic Reflector Localization: Novel Image Source Reversion and Direct Localization Methods. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 296-309.	5.8	29
10	Frication noise modulated by voicing, as revealed by pitch-scaled decomposition. Journal of the Acoustical Society of America, 2000, 108, 1421-1434.	1.1	22
11	An Audio-Visual System for Object-Based Audio: From Recording to Listening. IEEE Transactions on Multimedia, 2018, 20, 1919-1931.	7.2	22
12	A multiple-level linear/linear segmental HMM with a formant-based intermediate layer. Computer Speech and Language, 2005, 19, 205-225.	4.3	21
13	Integrating binaural cues and blind source separation method for separating reverberant speech mixtures. , 2011, , .		20
14	A perceptually-weighted deep neural network for monaural speech enhancement in various background noise conditions. , 2017, , .		20
15	Source Separation of Convolutive and Noisy Mixtures Using Audio-Visual Dictionary Learning and Probabilistic Time-Frequency Masking. IEEE Transactions on Signal Processing, 2013, 61, 5520-5535.	5.3	18
16	Spatial and coherence cues based time-frequency masking for binaural reverberant speech separation. , 2013, , .		14
17	The Relationship Between Target Quality and Interference in Sound Zone. AES: Journal of the Audio Engineering Society, 2015, 63, 78-89.	1.0	14
18	3D Room Geometry Reconstruction Using Audio-Visual Sensors. , 2017, , .		14

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19	Use of bimodal coherence to resolve the permutation problem in convolutive BSS. Signal Processing, 2012, 92, 1916-1927.	3.7	12
20	Multiple Speaker Tracking in Spatial Audio via PHD Filtering and Depth-Audio Fusion. IEEE Transactions on Multimedia, 2018, 20, 1767-1780.	7.2	12
21	A visual voice activity detection method with adaboosting. , 2011, , .		11
22	Qualitative Evaluation of Media Device Orchestration for Immersive Spatial Audio Reproduction. AES: Journal of the Audio Engineering Society, 2018, 66, 414-429.	1.0	11
23	Iterative Deep Neural Networks for Speaker-Independent Binaural Blind Speech Separation. , 2018, , .		10
24	Optimal source placement for sound zone reproduction with first order reflections. Journal of the Acoustical Society of America, 2014, 136, 3085-3096.	1.1	9
25	Microphone Array Geometries for Horizontal Spatial Audio Object Capture With Beamforming. AES: Journal of the Audio Engineering Society, 2020, 68, 324-337.	1.0	9
26	Amplitude modulation of turbulence noise by voicing in fricatives. Journal of the Acoustical Society of America, 2006, 120, 3966-3977.	1.1	8
27	Spatial Audio Quality Perception (Part 2): A Linear Regression Model. AES: Journal of the Audio Engineering Society, 2015, 62, 847-860.	1.0	8
28	Frication and Voicing Classification. Lecture Notes in Computer Science, 2008, , 11-20.	1.3	8
29	Data-driven, nonlinear, formant-to-acoustic mapping for ASR. Electronics Letters, 2002, 38, 667.	1.0	6
30	Two-Microphone Dereverberation for Automatic Speech Recognition of Polish. Archives of Acoustics, 2015, 39, 411-420.	0.8	6
31	A 3D model for room boundary estimation. , 2015, , .		6
32	Spatial Audio Quality Perception (Part 1): Impact of Commonly Encountered Processes. AES: Journal of the Audio Engineering Society, 2015, 62, 831-846.	1.0	6
33	Generalisation in Environmental Sound Classification: The â€˜Making Sense of Soundsâ€™ Data Set and Challenge. , 2019, , .		6
34	Modeling the Comb Filter Effect and Interaural Coherence for Binaural Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 2263-2277.	5.8	6
35	Single-Channel Signal Separation and Deconvolution with Generative Adversarial Networks. , 2019, , .		6
36	Sound field planarity characterized by superdirective beamforming. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5

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37	The influence of regularization on anechoic performance and robustness of sound zone methods. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5
38	Room boundary estimation from acoustic room impulse responses. , 2014, , .		5
39	A source separation evaluation method in object-based spatial audio. , 2015, , .		5
40	Limits of Perceived Audio-Visual Spatial Coherence as Defined by Reaction Time Measurements. Frontiers in Neuroscience, 2019, 13, 451.	2.8	5
41	A Speech Synthesis Approach for High Quality Speech Separation and Generation. IEEE Signal Processing Letters, 2019, 26, 1872-1876.	3.6	5
42	Immersive audio-visual scene reproduction using semantic scene reconstruction from 360 cameras. Virtual Reality, 2022, 26, 823-838.	6.1	5
43	Modelling speech signals using formant frequencies as an intermediate representation. IET Signal Processing, 2007, 1, 43-50.	1.5	4
44	Acoustic Reflector Localization and Classification. , 2018, , .		4
45	Use of Bimodal Coherence to Resolve Spectral Indeterminacy in Convolutive BSS. Lecture Notes in Computer Science, 2010, , 131-139.	1.3	4
46	Model-Based Synthesis of Visual Speech Movements from 3D Video. Eurasip Journal on Audio, Speech, and Music Processing, 2009, 2009, 1-12.	2.1	3
47	Reverberant speech separation based on audio-visual dictionary learning and binaural cues. , 2012, , .		3
48	An Audio-Visual Method for Room Boundary Estimation and Material Recognition. , 2018, , .		3
49	Speech-driven face synthesis from 3D video. , 0, , .		2
50	Influence of low-order room reflections on sound zone system performance. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
51	Person Tracking Using Audio and Depth Cues. , 2015, , .		2
52	Speech reaction time measurements for the evaluation of audio-visual spatial coherence. , 2017, , .		2
53	Media Device Orchestration for Immersive Spatial Audio Reproduction. , 2017, , .		2
54	Synthesis of Images by Two-Stage Generative Adversarial Networks. , 2018, , .		2

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55	Representing dynamics of facial expressions. , 2006, , .		2
56	Perceptual Evaluation of Blind Source Separation in Object-Based Audio Production. Lecture Notes in Computer Science, 2018, , 558-567.	1.3	2
57	Acoustic Room Modelling Using 360 Stereo Cameras. IEEE Transactions on Multimedia, 2021, 23, 4117-4130.	7.2	2
58	Immersive Virtual Reality Audio Rendering Adapted to the Listener and the Room. Lecture Notes in Computer Science, 2020, , 293-318.	1.3	2
59	Development of articulatory-based multilevel segmental HMMs for phonetic classification in ASR. , 0, , .		1
60	A hybrid iterative algorithm for Nonnegative Matrix Factorization. , 2009, , .		1
61	Source localization and separation using Random Sample Consensus with phase cues. , 2011, , .		1
62	Comparison between the Statistical cues in BSS techniques and Binaural cues in CASA approaches for reverberant speech separation. , 2013, , .		1
63	IVA algorithms using a multivariate Student's t source prior for speech source separation in real room environments. , 2015, , .		1
64	A Performance Evaluation of Several Deep Neural Networks for Reverberant Speech Separation. , 2018, , .		1
65	Robust Full-sphere Binaural Sound Source Localization Using Interaural and Spectral Cues. , 2019, , .		1
66	A System Architecture for Semantically Informed Rendering of Object-Based Audio. AES: Journal of the Audio Engineering Society, 2019, 67, 498-509.	1.0	1
67	Audio-Visual Spatial Alignment Requirements of Central and Peripheral Object Events. , 2020, , .		1
68	Naturalistic audio-visual volumetric sequences dataset of sounding actions for six degree-of-freedom interaction. , 2021, , .		1
69	Amplitude modulation of frication noise by voicing saturates. , 0, , .		1
70	Time-Frequency-Modulation Representation of Stochastic Signals. , 2007, , .		0
71	Start- and end-node segmental-HMM pruning. Electronics Letters, 2008, 44, 60.	1.0	0
72	Parallel model combination and word recognition in soccer audio. , 2008, , .		0

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73	Fast tagging of natural sounds using marginal co-regularization. , 2017, , .		0
74	Developing undergraduate teaching materials in collaboration with pre-university students. MRS Advances, 2017, 2, 1713-1719.	0.9	0
75	Visual analysis of lip coarticulation in VCV utterances. , 0, , .		0