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	Immersive audio-visual scene reproduction using semantic scene reconstruction from 360 cameras. Virtual Reality, 2022, 26, 823-838.	6.1	5
2	Naturalistic audio-visual volumetric sequences dataset of sounding actions for six degree-of-freedom interaction. , 2021, , .		1
3	Acoustic Room Modelling Using 360 Stereo Cameras. IEEE Transactions on Multimedia, 2021, 23, 4117-4130.	7.2	2
4	Audio-Visual Spatial Alignment Requirements of Central and Peripheral Object Events. , 2020, , .		1
5	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
6	Immersive Virtual Reality Audio Rendering Adapted to the Listener and the Room. Lecture Notes in Computer Science, 2020, , 293-318.	1.3	2
7	Robust Full-sphere Binaural Sound Source Localization Using Interaural and Spectral Cues. , 2019, , .		1
8	Generalisation in Environmental Sound Classification: The â€˜Making Sense of Soundsâ€™ Data Set and Challenge. , 2019, , .		6
9	Immersive Spatial Audio Reproduction for VR/AR Using Room Acoustic Modelling from 360Â° Images. , 2019, , .		30
10	Limits of Perceived Audio-Visual Spatial Coherence as Defined by Reaction Time Measurements. Frontiers in Neuroscience, 2019, 13, 451.	2.8	5
11	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
12	A Speech Synthesis Approach for High Quality Speech Separation and Generation. IEEE Signal Processing Letters, 2019, 26, 1872-1876.	3.6	5
13	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
14	Single-Channel Signal Separation and Deconvolution with Generative Adversarial Networks. , 2019, , .		6
15	An Audio-Visual System for Object-Based Audio: From Recording to Listening. IEEE Transactions on Multimedia, 2018, 20, 1919-1931.	7.2	22
16	Multiple Speaker Tracking in Spatial Audio via PHD Filtering and Depth-Audio Fusion. IEEE Transactions on Multimedia, 2018, 20, 1767-1780.	7.2	12
17	A Performance Evaluation of Several Deep Neural Networks for Reverberant Speech Separation. , 2018, , .		1
18	Iterative Deep Neural Networks for Speaker-Independent Binaural Blind Speech Separation. , 2018, , .		10

#	Article	IF	Citations
19	Synthesis of Images by Two-Stage Generative Adversarial Networks. , 2018, , .		2
20	An Audio-Visual Method for Room Boundary Estimation and Material Recognition. , 2018, , .		3
21	Acoustic Reflector Localization and Classification. , 2018, , .		4
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	Perceptual Evaluation of Blind Source Separation in Object-Based Audio Production. Lecture Notes in Computer Science, 2018, , 558-567.	1.3	2
24	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
25	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
26	Fast tagging of natural sounds using marginal co-regularization. , 2017, , .		0
27	Speech reaction time measurements for the evaluation of audio-visual spatial coherence. , 2017, , .		2
28	Developing undergraduate teaching materials in collaboration with pre-university students. MRS Advances, 2017, 2, 1713-1719.	0.9	0
29	A perceptually-weighted deep neural network for monaural speech enhancement in various background noise conditions. , 2017, , .		20
30	Media Device Orchestration for Immersive Spatial Audio Reproduction. , 2017, , .		2
31	Object-Based Reverberation for Spatial Audio. AES: Journal of the Audio Engineering Society, 2017, 65, 66-77.	1.0	35
32	3D Room Geometry Reconstruction Using Audio-Visual Sensors. , 2017, , .		14
33	Two-Microphone Dereverberation for Automatic Speech Recognition of Polish. Archives of Acoustics, 2015, 39, 411-420.	0.8	6
34	A 3D model for room boundary estimation. , 2015, , .		6
35	Person Tracking Using Audio and Depth Cues. , 2015, , .		2
36	Spatial Audio Quality Perception (Part 2): A Linear Regression Model. AES: Journal of the Audio Engineering Society, 2015, 62, 847-860.	1.0	8

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37	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
38	The Relationship Between Target Quality and Interference in Sound Zone. AES: Journal of the Audio Engineering Society, 2015, 63, 78-89.	1.0	14
39	A source separation evaluation method in object-based spatial audio. , 2015, , .		5
40	IVA algorithms using a multivariate Student's t source prior for speech source separation in real room environments. , 2015, , .		1
41	Room boundary estimation from acoustic room impulse responses. , 2014, , .		5
42	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
43	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
44	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
45	Personal audio with a planar bright zone. Journal of the Acoustical Society of America, 2014, 136, 1725-1735.	1.1	51
46	Comparison between the Statistical cues in BSS techniques and Binaural cues in CASA approaches for reverberant speech separation. , 2013, , .		1
47	Sound field planarity characterized by superdirective beamforming. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5
48	Spatial and coherence cues based time-frequency masking for binaural reverberant speech separation. , 2013, , .		14
49	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
50	The influence of regularization on anechoic performance and robustness of sound zone methods. Proceedings of Meetings on Acoustics, 2013, , .	0.3	5
51	Influence of low-order room reflections on sound zone system performance. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
52	Reverberant speech separation based on audio-visual dictionary learning and binaural cues. , 2012, , .		3
53	Use of bimodal coherence to resolve the permutation problem in convolutive BSS. Signal Processing, 2012, 92, 1916-1927.	3.7	12
54	Source localization and separation using Random Sample Consensus with phase cues. , 2011, , .		1

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55	Integrating binaural cues and blind source separation method for separating reverberant speech mixtures. , 2011, , .		20
56	A visual voice activity detection method with adaboosting. , 2011, , .		11
57	Use of Bimodal Coherence to Resolve Spectral Indeterminacy in Convolutive BSS. Lecture Notes in Computer Science, 2010, , 131-139.	1.3	4
58	Statistical identification of articulation constraints in the production of speech. Speech Communication, 2009, 51, 695-710.	2.8	29
59	A hybrid iterative algorithm for Nonnegative Matrix Factorization. , 2009, , .		1
60	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
61	Start- and end-node segmental-HMM pruning. Electronics Letters, 2008, 44, 60.	1.0	0
62	Parallel model combination and word recognition in soccer audio. , 2008, , .		0
63	Frication and Voicing Classification. Lecture Notes in Computer Science, 2008, , 11-20.	1.3	8
64	Time-Frequency-Modulation Representation of Stochastic Signals. , 2007, , .		0
65	Modelling speech signals using formant frequencies as an intermediate representation. IET Signal Processing, 2007, 1, 43-50.	1.5	4
66	Amplitude modulation of turbulence noise by voicing in fricatives. Journal of the Acoustical Society of America, 2006, 120, 3966-3977.	1.1	8
67	Representing dynamics of facial expressions. , 2006, , .		2
68	A multiple-level linear/linear segmental HMM with a formant-based intermediate layer. Computer Speech and Language, 2005, 19, 205-225.	4.3	21
69	Data-driven, nonlinear, formant-to-acoustic mapping for ASR. Electronics Letters, 2002, 38, 667.	1.0	6
70	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
71	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
72	Speech-driven face synthesis from 3D video. , 0, , .		2

#	Article	IF	Citations
73	Development of articulatory-based multilevel segmental HMMs for phonetic classification in ASR. , 0, , .		1
74	Amplitude modulation of frication noise by voicing saturates. , 0, , .		1
75	Visual analysis of lip coarticulation in VCV utterances. , 0, , .		0