Damian Murphy

List of Publications by Year
in descending order

30 papers	311 citations	840776 11 h-index	888059 17 g-index
30 all docs	30 docs citations	30 times ranked	219 citing authors

#	Article	IF	Citations
1	A Perceptual Evaluation of Individual and Non-Individual HRTFs: A Case Study of the SADIE II Database. Applied Sciences (Switzerland), 2018, 8, 2029.	2.5	36
2	Real-Time Dynamic Articulations in the 2-D Waveguide Mesh Vocal Tract Model. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 577-585.	3.2	33
3	Room Impulse Response Synthesis and Validation Using a Hybrid Acoustic Model. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1940-1952.	3.2	29
4	The KW-Boundary Hybrid Digital Waveguide Mesh for Room Acoustics Applications. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 552-564.	3.2	20
5	Three-Dimensional Digital Waveguide Mesh Simulation of Cylindrical Vocal Tract Analogs. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 449-455.	3.2	16
6	EigenScape: A Database of Spatial Acoustic Scene Recordings. Applied Sciences (Switzerland), 2017, 7, 1204.	2.5	16
7	Acoustic Heritage and Audio Creativity: the Creative Application of Sound in the Representation, Understanding and Experience of Past Environments. Internet Archaeology, 2017, , .	0.4	16
8	Modeling Sparsely Reflecting Outdoor Acoustic Scenes Using the Waveguide Web. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1566-1578.	5.8	15
9	The Past Has Ears (PHE): XR Explorations of Acoustic Spaces as Cultural Heritage. Lecture Notes in Computer Science, 2020, , 91-98.	1.3	15
10	Modeling the Vocal Tract Transfer Function Using a 3D Digital Waveguide Mesh. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 453-464.	5.8	13
11	Spatial Encoding of Finite Difference Time Domain Acoustic Models for Auralization. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2420-2432.	3.2	11
12	Diphthong Synthesis Using the Dynamic 3D Digital Waveguide Mesh. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 243-255.	5.8	10
13	Diffuse-Field Equalisation of Binaural Ambisonic Rendering. Applied Sciences (Switzerland), 2018, 8, 1956.	2.5	10
14	Explicit Higher-Order FDTD Schemes for 3D Room Acoustic Simulation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2003-2011.	5.8	9
15	The Perception of Formant Tuning in Soprano Voices. Journal of Voice, 2018, 32, 126.e1-126.e10.	1.5	8
16	Application of Machine Learning for the Spatial Analysis of Binaural Room Impulse Responses. Applied Sciences (Switzerland), 2018, 8, 105.	2.5	8
17	Auditory Localization in Low-Bitrate Compressed Ambisonic Scenes. Applied Sciences (Switzerland), 2019, 9, 2618.	2.5	7
18	Exploring cultural heritage through acoustic digital reconstructions. Physics Today, 2020, 73, 32-37.	0.3	7

#	Article	IF	Citations
19	Interaural Level Difference Optimization of Binaural Ambisonic Rendering. Applied Sciences (Switzerland), 2019, 9, 1226.	2.5	6
20	Three-dimensional reflector localisation and room geometry estimation using a spherical microphone array. Journal of the Acoustical Society of America, 2019, 146, 3339-3352.	1.1	6
21	Determining the Relevant Criteria for Three-dimensional Vocal Tract Characterization. Journal of Voice, 2018, 32, 130-142.	1.5	4
22	Acoustic Scene Classification Using Higher-Order Ambisonic Features. , 2019, , .		4
23	Single-Frame Discrimination of Non-Stationary Sinusoids. , 2007, , .		3
24	Boundary absorption approximation in the spatial high-frequency extrapolation method for parametric room impulse response synthesis. Journal of the Acoustical Society of America, 2019, 145, 2770-2782.	1.1	3
25	A Comparative Evaluation of Techniques for Single-Frame Discrimination of Nonstationary Sinusoids. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 498-508.	3.2	2
26	Spatial Audio Measurement, Modeling and Composition. Leonardo, 2006, 39, 464-466.	0.3	1
27	Methods for 2nd Order Spherical Harmonic Spatial Encoding in Digital Waveguide Mesh Virtual Acoustic Simulations. , 2007, , .		1
28	Acoustic coupling in multi-dimensional finite difference schemes for physically modeled voice synthesis. , 2009, , .		1
29	Predicting the Colouration between Binaural Signals. Applied Sciences (Switzerland), 2022, 12, 2441.	2.5	1
30	Diffusing boundaries in the digital waveguide mesh and their effect on reverberation time. , 2008, , .		0