

Philippe-Aubert Gauthier

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

314
citations

1040056

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839539

18
g-index

28
all docs

28
docs citations

28
times ranked

214
citing authors

#	ARTICLE	IF	CITATIONS
1	Sound-field reproduction in-room using optimal control techniques: Simulations in the frequency domain. Journal of the Acoustical Society of America, 2005, 117, 662-678.	1.1	58
2	Inverse problem with beamforming regularization matrix applied to sound source localization in closed wind-tunnel using microphone array. Journal of Sound and Vibration, 2014, 333, 6858-6868.	3.9	43
3	Adaptive wave field synthesis with independent radiation mode control for active sound field reproduction: Theory. Journal of the Acoustical Society of America, 2006, 119, 2721-2737.	1.1	42
4	Beamforming regularization matrix and inverse problems applied to sound field measurement and extrapolation using microphone array. Journal of Sound and Vibration, 2011, 330, 5852-5877.	3.9	36
5	Enhancement of time-domain acoustic imaging based on generalized cross-correlation and spatial weighting. Mechanical Systems and Signal Processing, 2016, 75, 515-524.	8.0	31
6	Sound quality prediction based on systematic metric selection and shrinkage: Comparison of stepwise, lasso, and elastic-net algorithms and clustering preprocessing. Journal of Sound and Vibration, 2017, 400, 134-153.	3.9	19
7	Adaptive wave field synthesis for active sound field reproduction: Experimental results. Journal of the Acoustical Society of America, 2008, 123, 1991-2002.	1.1	15
8	A Fifty-Node Lebedev Grid And Its Applications To Ambisonics. AES: Journal of the Audio Engineering Society, 2016, 64, 868-881.	1.0	15
9	Acoustical inverse problems regularization: Direct definition of filter factors using Signal-to-Noise Ratio. Journal of Sound and Vibration, 2014, 333, 761-773.	3.9	10
10	Adaptive wave field synthesis for broadband active sound field reproduction: Signal processing. Journal of the Acoustical Society of America, 2008, 123, 2003-2016.	1.1	9
11	Cancellation of room reflections over an extended area using Ambisonics. Journal of the Acoustical Society of America, 2018, 143, 811-828.	1.1	8
12	Spectral and Spatial Multichannel Analysis/Synthesis of Interior Aircraft Sounds. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1317-1329.	3.2	5
13	Interior sound field control using generalized singular value decomposition in the frequency domain. Journal of the Acoustical Society of America, 2017, 141, 334-345.	1.1	5
14	<i>Auditory Tactics:</i> A Sound Installation in Public Space Using Beamforming Technology. Leonardo, 2010, 43, 426-433.	0.3	3
15	Binaural analysis/synthesis of interior aircraft sounds. , 2011, , .		3
16	Perceptual evaluation of interior aircraft sound models. , 2011, , .		3
17	Aircraft sound environment reproduction: Sound field reproduction inside a cabin mock-up using microphone and actuator arrays. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
18	Beamforming Regularization, Scaling Matrices, and Inverse Problems for Sound Field Extrapolation and Characterization: Part II – Experiments. AES: Journal of the Audio Engineering Society, 2014, 62, 207-219.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Sound Field Reproduction by Combination of Circular and Spherical Higher-Order Ambisonics: Part I – A New 2.5-D Driving Function for Circular Arrays. AES: Journal of the Audio Engineering Society, 2021, 69, 152-165.	1.0	2
20	Adaptive wave field synthesis. Journal of the Acoustical Society of America, 2008, 123, 581-581.	1.1	0
21	Fly-over aircraft noise measurement campaign at Montreal-Trudeau airport using a microphone array. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
22	Aircraft Noise Source Identification Using a Microphone Array: Montreal-Trudeau Airport Test Campaign. , 0, , .		0
23	Beamforming Regularization, Scaling Matrices, and Inverse Problems for Sound Field Extrapolation and Characterization: Part I – Theory. AES: Journal of the Audio Engineering Society, 2014, 62, 77-98.	1.0	0
24	Sound Field Reproduction by Combination of Circular and Spherical Higher-Order Ambisonics: Part II – Hybrid System. AES: Journal of the Audio Engineering Society, 2021, 69, 166-181.	1.0	0