

Philippe-Aubert Gauthier

List of Publications by Year in descending order

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24
papers

314
citations

1040056

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839539

18
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28
all docs

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docs citations

28
times ranked

214
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Cancellation of room reflections over an extended area using Ambisonics. Journal of the Acoustical Society of America, 2018, 143, 811-828. | 1.1 | 8 |
| 4 | 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 |
| 5 | 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 |
| 6 | A Fifty-Node Lebedev Grid And Its Applications To Ambisonics. AES: Journal of the Audio Engineering Society, 2016, 64, 868-881. | 1.0 | 15 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 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 | Fly-over aircraft noise measurement campaign at Montreal-Trudeau airport using a microphone array. Proceedings of Meetings on Acoustics, 2013, , . | 0.3 | 0 |
| 14 | 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 |
| 15 | Binaural analysis/synthesis of interior aircraft sounds. , 2011, , . | | 3 |
| 16 | Perceptual evaluation of interior aircraft sound models. , 2011, , . | | 3 |
| 17 | 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 |
| 18 | <i>Auditory Tactics:</i> A Sound Installation in Public Space Using Beamforming Technology. Leonardo, 2010, 43, 426-433. | 0.3 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Adaptive wave field synthesis. Journal of the Acoustical Society of America, 2008, 123, 581-581. | 1.1 | 0 |
| 22 | 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 |
| 23 | 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 |
| 24 | Aircraft Noise Source Identification Using a Microphone Array: Montreal-Trudeau Airport Test Campaign. , 0, , . | | 0 |