Dan Stowell

List of Publications by Year in Descending Order

36 papers	**1,031** citations	**13** h-index	**32** g-index
44 ext. papers	**1,438** ext. citations	**3.4** avg, IF	**4.95** L-index

#	Paper	IF	Citations
36	Computational bioacoustics with deep learning: a review and roadmap.. *PeerJ*, **2022**, 10, e13152	3.1	7
35	Deep perceptual embeddings for unlabelled animal sound events. *Journal of the Acoustical Society of America*, **2021**, 150, 2	2.2	3
34	Acoustic traits of bat-pollinated flowers compared to flowers of other pollination syndromes and their echo-based classification using convolutional neural networks.. *PLoS Computational Biology*, **2021**, 17, e1009706	5	3
33	Online visibility graphs: Encoding visibility in a binary search tree. *Physical Review Research*, **2020**, 2,	3.9	1
32	Efficient Bird Sound Detection on the Bela Embedded System **2020**,		1
31	A harmonised, high-coverage, open dataset of solar photovoltaic installations in the UK. *Scientific Data*, **2020**, 7, 394	8.2	7
30	Low-Cost Distributed Acoustic Sensor Network for Real-Time Urban Sound Monitoring. *Electronics (Switzerland)*, **2020**, 9, 2119	2.6	5
29	Unifying Probabilistic Models for Time-frequency Analysis **2019**,		1
28	Automatic acoustic identification of individuals in multiple species: improving identification across recording conditions. *Journal of the Royal Society Interface*, **2019**, 16, 20180940	4.1	24
27	NIPS4Bplus: a richly annotated birdsong audio dataset. *PeerJ Computer Science*, **2019**, 5, e223	2.7	6
26	Automatic acoustic detection of birds through deep learning: The first Bird Audio Detection challenge. *Methods in Ecology and Evolution*, **2019**, 10, 368-380	7.7	83
25	Approaches to Complex Sound Scene Analysis **2018**, 215-242		2
24	Computational Bioacoustic Scene Analysis **2018**, 303-333		17
23	Does k Matter? k-NN Hubness Analysis for Kernel Additive Modelling Vocal Separation. *Lecture Notes in Computer Science*, **2018**, 280-289	0.9	0
22	A Generative Model for Natural Sounds Based on Latent Force Modelling. *Lecture Notes in Computer Science*, **2018**, 259-269	0.9	
21	Deep Learning for Audio Event Detection and Tagging on Low-Resource Datasets. *Applied Sciences (Switzerland)*, **2018**, 8, 1397	2.6	17
20	. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2017**, 25, 1193-1206	3.6	31

19	Deductive refinement of species labelling in weakly labelled birdsong recordings **2017**,		1
18	Bird detection in audio: A survey and a challenge **2016**,		48
17	Detailed temporal structure of communication networks in groups of songbirds. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	15
16	Gaussian processes for music audio modelling and content analysis **2016**,		1
15	Acoustic Scene Classification: Classifying environments from the sounds they produce. *IEEE Signal Processing Magazine*, **2015**, 32, 16-34	9.4	169
14	. *IEEE Transactions on Multimedia*, **2015**, 17, 1733-1746	6.6	245
13	Acoustic event detection for multiple overlapping similar sources **2015**,		15
12	Automatic large-scale classification of bird sounds is strongly improved by unsupervised feature learning. *PeerJ*, **2014**, 2, e488	3.1	143
11	Large-scale analysis of frequency modulation in birdsong data bases. *Methods in Ecology and Evolution*, **2014**, 5, 901-912	7.7	12
10	Integration of informal music technologies in secondary school music lessons. *British Journal of Music Education*, **2014**, 31, 19-39	0.6	11
9	Improved multiple birdsong tracking with distribution derivative method and Markov renewal process clustering **2013**,		2
8	Detection and classification of acoustic scenes and events: An IEEE AASP challenge **2013**,		92
7	Live Music-Making: A Rich Open Task Requires a Rich Open Interface. *Springer Series on Cultural Computing*, **2013**, 139-152	0.4	1
6	Maximum a Posteriori Estimation of Piecewise Arcs in Tempo Time-Series. *Lecture Notes in Computer Science*, **2013**, 387-399	0.9	2
5	Learning Timbre Analogies from Unlabelled Data by Multivariate Tree Regression. *Journal of New Music Research*, **2011**, 40, 325-336	1.1	1
4	Delayed Decision-making in Real-time Beatbox Percussion Classification. *Journal of New Music Research*, **2010**, 39, 203-213	1.1	11
3	Fast Multidimensional Entropy Estimation by k-d Partitioning. *IEEE Signal Processing Letters*, **2009**, 16, 537-540	3.2	39
2	Individual Identity in Songbirds: Signal Representations and Metric Learning for Locating the Information in Complex Corvid Calls		2