

# Michael W Towsey

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6341766/publications.pdf>

Version: 2024-02-01

73  
papers

1,845  
citations

361296

20  
h-index

302012

39  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using a Novel Visualization Tool for Rapid Survey of Long-Duration Acoustic Recordings for Ecological Studies of Frog Chorusing. <i>Frontiers in Ecology and Evolution</i> , 2022, 9, .	1.1	2
2	Acoustic region workflow for efficient comparison of soundscapes under different invasive mammals' management regimes. <i>Ecological Informatics</i> , 2022, 68, 101554.	2.3	6
3	Acoustic monitoring reveals year-round calling by invasive toads in tropical Australia. <i>Bioacoustics</i> , 2021, 30, 125-141.	0.7	15
4	Assessing the potential of acoustic indices for protected area monitoring in the Serra do Cipó <sup>3</sup> National Park, Brazil. <i>Ecological Indicators</i> , 2021, 120, 106953.	2.6	13
5	The Australian Acoustic Observatory. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1802-1808.	2.2	32
6	A novel frog chorusing recognition method with acoustic indices and machine learning. <i>Future Generation Computer Systems</i> , 2021, 125, 485-495.	4.9	8
7	Assessing the value of acoustic indices to distinguish species and quantify activity: A case study using frogs. <i>Freshwater Biology</i> , 2020, 65, 142-152.	1.2	16
8	Acoustic detection and acoustic habitat characterisation of the critically endangered white-bellied heron ( <i>Ardea insignis</i> ) in Bhutan. <i>Freshwater Biology</i> , 2020, 65, 153-164.	1.2	12
9	Investigation of Acoustic and Visual Features for Frog Call Classification. <i>Journal of Signal Processing Systems</i> , 2020, 92, 23-36.	1.4	6
10	Using visualization and machine learning methods to monitor low detectability species—The least bittern as a case study. <i>Ecological Informatics</i> , 2020, 55, 101014.	2.3	24
11	Automated species identification of frog choruses in environmental recordings using acoustic indices. <i>Ecological Indicators</i> , 2020, 119, 106852.	2.6	23
12	Data selection in frog chorusing recognition with acoustic indices. <i>Ecological Informatics</i> , 2020, 60, 101160.	2.3	11
13	Using soundscapes to investigate homogenization of tropical forest diversity in selectively logged forests. <i>Journal of Applied Ecology</i> , 2019, 56, 2493-2504.	1.9	27
14	Recognition of Frog Chorusing with Acoustic Indices and Machine Learning. , 2019, , .		2
15	Social Network Analysis of an Acoustic Environment: The Use of Visualised Data to Characterise Natural Habitats. , 2019, , .		0
16	Frog call classification: a survey. <i>Artificial Intelligence Review</i> , 2018, 49, 375-391.	9.7	16
17	Using soundscapes to detect variable degrees of human influence on tropical forests in Papua New Guinea. <i>Conservation Biology</i> , 2018, 32, 205-215.	2.4	65
18	Acoustic classification of frog within-species and species-specific calls. <i>Applied Acoustics</i> , 2018, 131, 79-86.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Catching Toad Calls in the Cloud: Commodity Edge Computing for Flexible Analysis of Big Sound Data. , 2018, , .		6
20	Animal Call Recognition with Acoustic Indices: Little Spotted Kiwi as a Case Study. , 2018, , .		1
21	Active learning for classifying long-duration audio recordings of the environment. Methods in Ecology and Evolution, 2018, 9, 1948-1958.	2.2	7
22	Revealing the ecological content of long-duration audio-recordings of the environment through clustering and visualisation. PLoS ONE, 2018, 13, e0193345.	1.1	61
23	Long-duration, false-colour spectrograms for detecting species in large audio data-sets. Journal of Ecoacoustics, 2018, 2, 1-1.	1.5	44
24	Using non-negative matrix factorisation to facilitate efficient bird species richness surveys. Ecological Indicators, 2017, 80, 297-302.	2.6	4
25	An intelligent system for estimating frog community calling activity and species richness. Ecological Indicators, 2017, 82, 13-22.	2.6	20
26	An Investigation into Acoustic Analysis Methods for Endangered Species Monitoring: A Case of Monitoring the Critically Endangered White-Bellied Heron in Bhutan. , 2017, , .		6
27	Using multi-label classification for acoustic pattern detection and assisting bird species surveys. Applied Acoustics, 2016, 110, 91-98.	1.7	35
28	Feature Extraction Based on Bandpass Filtering for Frog Call Classification. Lecture Notes in Computer Science, 2016, , 231-239.	1.0	1
29	Acoustic classification of Australian frogs based on enhanced features and machine learning algorithms. Applied Acoustics, 2016, 113, 193-201.	1.7	27
30	Classifying and ranking audio clips to support bird species richness surveys. Ecological Informatics, 2016, 34, 108-116.	2.3	14
31	Adaptive frequency scaled wavelet packet decomposition for frog call classification. Ecological Informatics, 2016, 32, 134-144.	2.3	27
32	Multiple-Instance Multiple-Label Learning for the Classification of Frog Calls with Acoustic Event Detection. Lecture Notes in Computer Science, 2016, , 222-230.	1.0	4
33	Computer-Assisted Sampling of Acoustic Data for More Efficient Determination of Bird Species Richness. , 2015, , .		6
34	The Navigation and Visualisation of Environmental Audio Using Zooming Spectrograms. , 2015, , .		24
35	Generalised features for bird vocalisation retrieval in acoustic recordings. , 2015, , .		3
36	Assistive classification for improving the efficiency of avian species richness surveys. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	Birdcall Retrieval from Environmental Acoustic Recordings Using Image Processing. , 2015, , .		1
38	Application of image processing techniques for frog call classification. , 2015, , .		8
39	Compact Features for Birdcall Retrieval from Environmental Acoustic Recordings. , 2015, , .		5
40	Acoustic classification of Australian anurans using syllable features. , 2015, , .		11
41	Detection of anuran calling activity in long field recordings for bio-acoustic monitoring. , 2015, , .		3
42	Similarity-based birdcall retrieval from environmental audio. Ecological Informatics, 2015, 29, 66-76.	2.3	18
43	Acoustic Feature Extraction Using Perceptual Wavelet Packet Decomposition for Frog Call Classification. , 2015, , .		5
44	Image Processing and Classification Procedure for the Analysis of Australian Frog Vocalisations. , 2015, , .		4
45	Visual Fingerprints of the Acoustic Environment: The Use of Acoustic Indices to Characterise Natural Habitats. , 2015, , .		10
46	Decision support for the efficient annotation of bioacoustic events. Ecological Informatics, 2015, 25, 14-21.	2.3	7
47	Practical Analysis of Big Acoustic Sensor Data for Environmental Monitoring. , 2014, , .		20
48	Detection of Rain in Acoustic Recordings of the Environment. Lecture Notes in Computer Science, 2014, , 104-116.	1.0	10
49	A survey of tagging techniques for music, speech and environmental sound. Artificial Intelligence Review, 2014, 42, 637-661.	9.7	35
50	The use of acoustic indices to determine avian species richness in audio-recordings of the environment. Ecological Informatics, 2014, 21, 110-119.	2.3	230
51	The greatest shadow on Earth. Physics Education, 2014, 49, 88-94.	0.3	7
52	Temporal and environmental influences on the vocal behaviour of a nocturnal bird. Journal of Avian Biology, 2014, 45, 591-599.	0.6	23
53	Visualization of Long-duration Acoustic Recordings of the Environment. Procedia Computer Science, 2014, 29, 703-712.	1.2	115
54	Sampling environmental acoustic recordings to determine bird species richness. Ecological Applications, 2013, 23, 1419-1428.	1.8	206

#	ARTICLE	IF	CITATIONS
55	A Novel Representation of Bioacoustic Events for Content-Based Search in Field Audio Data. , 2013, , .		12
56	A practical comparison of manual and autonomous methods for acoustic monitoring. Methods in Ecology and Evolution, 2013, 4, 675-683.	2.2	167
57	Analysing environmental acoustic data through collaboration and automation. Future Generation Computer Systems, 2013, 29, 560-568.	4.9	56
58	Managing and Analysing Big Audio Data for Environmental Monitoring. , 2013, , .		17
59	Reconciling Folksonomic Tagging with Taxa for Bioacoustic Annotations. Lecture Notes in Computer Science, 2013, , 292-305.	1.0	1
60	DIABETIC AUTONOMIC NEUROPATHY DETECTION BY HEART-RATE VARIABILITY POWER-SPECTRAL ANALYSIS. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250039.	0.3	1
61	A toolbox for animal call recognition. Bioacoustics, 2012, 21, 107-125.	0.7	112
62	Acoustic component detection for automatic species recognition in environmental monitoring. , 2011, , .		5
63	Scaling Acoustic Data Analysis through Collaboration and Automation. , 2010, , .		20
64	The cross-species prediction of bacterial promoters using a support vector machine. Computational Biology and Chemistry, 2008, 32, 359-366.	1.1	23
65	Towards an Acoustic Environmental Observatory. , 2008, , .		16
66	Comparative Studies Made Simple in GPFlow. , 2008, , .		0
67	Comparative Studies Simplified in GPFlow. Lecture Notes in Computer Science, 2008, , 491-500.	1.0	0
68	THE IN SILICO PREDICTION OF PROMOTERS IN BACTERIAL GENOMES. , 2007, , .		4
69	THE PREDICTION OF BACTERIAL TRANSCRIPTION START SITES USING SVMs. International Journal of Neural Systems, 2006, 16, 363-370.	3.2	12
70	Efficacy of modified backpropagation and optimisation methods on a real-world medical problem. Neural Networks, 1995, 8, 945-962.	3.3	35
71	Homoeopathyâ€™a biophysical point of view. The British Homoeopathic Journal, 1995, 84, 218-228.	0.6	7
72	Archiving Nature's Heartbeat Using Smartphones. , 0, , 121-139.		3

#	ARTICLE	IF	CITATIONS
73	Archiving Nature's Heartbeat Using Smartphones. , 0, , 1896-1912.		0