

Ian V Mcloughlin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142
papers

1,366
citations

17
h-index

31
g-index

175
ext. papers

1,882
ext. citations

2.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
142	Robust Sound Event Classification Using Deep Neural Networks. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015 , 23, 540-552	3.6	147
141	Bio-effects and safety of low-intensity, low-frequency ultrasonic exposure. <i>Progress in Biophysics and Molecular Biology</i> , 2012 , 108, 119-38	4.7	112
140	Robust sound event recognition using convolutional neural networks 2015 ,		101
139	Fourier transform based scalable image quality measure. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 3364-77	8.7	74
138	An Attention Pooling Based Representation Learning Method for Speech Emotion Recognition		47
137	Applied Speech and Audio Processing: With Matlab Examples 2009 ,		46
136	Reconstruction of normal sounding speech for laryngectomy patients through a modified CELP codec. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 2448-58	5	35
135	Deep bottleneck features for spoken language identification. <i>PLoS ONE</i> , 2014 , 9, e100795	3.7	31
134	Improving GANs for Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1700-1704	3.2	31
133	A comprehensive vowel space for whispered speech. <i>Journal of Voice</i> , 2012 , 26, e49-56	1.9	28
132	Line spectral pairs. <i>Signal Processing</i> , 2008 , 88, 448-467	4.4	26
131	. <i>IEEE Access</i> , 2017 , 5, 21002-21015	3.5	24
130	Towards More Accurate Automatic Sleep Staging via Deep Transfer Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1787-1798	5	22
129	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012 , 20, 1217-1232		20
128	Effects of Channel Prediction for Transmit Antenna Selection With Maximal-Ratio Combining in Rayleigh Fading. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2555-2568	6.8	19
127	A Group Ring Construction of the Extended Binary Golay Code. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 4381-4383	2.8	18
126	Secure Embedded Systems: The Threat of Reverse Engineering 2008 ,		18

125	Continuous robust sound event classification using time-frequency features and deep learning. <i>PLoS ONE</i> , 2017 , 12, e0182309	3.7	16
124	Efficient Integer Frequency Offset Estimation Architecture for Enhanced OFDM Synchronization. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 1412-1420	2.6	16
123	Improving Aggregation and Loss Function for Better Embedding Learning in End-to-End Speaker Verification System		16
122	LID-Senones and Their Statistics for Language Identification. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018 , 26, 171-183	3.6	14
121	A group ring construction of the [48,24,12] type II linear block code. <i>Designs, Codes, and Cryptography</i> , 2012 , 63, 29-41	1.2	14
120	Reconstruction of Phonated Speech from Whispers Using Formant-Derived Plausible Pitch Modulation. <i>ACM Transactions on Accessible Computing</i> , 2015 , 6, 1-21	2.7	13
119	Low-Power Correlation for IEEE 802.16 OFDM Synchronization on FPGA. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2013 , 21, 1549-1553	2.6	13
118	Performance of Dual-Hop Multi-Antenna Systems with Fixed Gain Amplify-and-Forward Relay Selection. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1709-1714	9.6	12
117	Proposal of standards for intelligibility tests of Chinese speech. <i>IET Computer Vision</i> , 2000 , 147, 254		12
116	Classifying watermelon ripeness by analysing acoustic signals using mobile devices. <i>Personal and Ubiquitous Computing</i> , 2014 , 18, 1753-1762	2.1	11
115	CNN-MoE Based Framework for Classification of Respiratory Anomalies and Lung Disease Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 2938-2947	7.2	11
114	Improved language identification using deep bottleneck network 2015 ,		10
113	Improved i-Vector Representation for Speaker Diarization. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 3393-3404	2.2	10
112	What makes audio event detection harder than classification? 2017 ,		10
111	Whisper-to-speech conversion using restricted Boltzmann machine arrays. <i>Electronics Letters</i> , 2014 , 50, 1781-1782	1.1	10
110	Non-intrusive Speech Quality Assessment with Support Vector Regression. <i>Lecture Notes in Computer Science</i> , 2010 , 325-335	0.9	10
109	A new variance-based approach for discriminative feature extraction in machine hearing classification using spectrogram features 2016 , 54, 119-128		10
108	Robust and Efficient OFDM Synchronization for FPGA-Based Radios. <i>Circuits, Systems, and Signal Processing</i> , 2014 , 33, 2475-2493	2.2	9

107	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 117-125		9
106	A Robust Framework for Acoustic Scene Classification		9
105	Performance evaluation of deep bottleneck features for spoken language identification 2014 ,		8
104	Digital Urban Modeling and Simulation. <i>Communications in Computer and Information Science</i> , 2012 ,	0.3	8
103	A Unified Framework for GPS Code and Carrier-Phase Multipath Mitigation Using Support Vector Regression. <i>Advances in Artificial Neural Systems</i> , 2013 , 2013, 1-14		8
102	Keypress biometrics for user validation in mobile consumer devices 2009 ,		8
101	Analysis-by-synthesis method for whisper-speech reconstruction 2008 ,		8
100	An FPGA-Based MIMO and Space-Time Processing Platform. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006 , 2006, 1	1.9	8
99	Compact convolutional neural network transfer learning for small-scale image classification 2016 ,		8
98	Listening and Grouping: An Online Autoregressive Approach for Monaural Speech Separation. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019 , 27, 692-703	3.6	8
97	Glottal Flow Synthesis for Whisper-to-Speech Conversion. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2020 , 28, 889-900	3.6	7
96	A Conditional Generative Model for Speech Enhancement. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 5005-5022	2.2	7
95	Super-Audible Voice Activity Detection. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014 , 22, 1424-1433	3.6	7
94	2009 ,		7
93	An Improved Deep Embedding Learning Method for Short Duration Speaker Verification		7
92	A New Time-Frequency Attention Mechanism for TDNN and CNN-LSTM-TDNN, with Application to Language Identification		7
91	Robust acoustic scene classification using a multi-spectrogram encoder-decoder framework 2021 , 110, 102943		7
90	2019 ,		6

89	Spectrally efficient emission mask shaping for OFDM cognitive radios 2016 , 50, 150-161		6
88	A Region Based Attention Method for Weakly Supervised Sound Event Detection and Classification 2019 ,		6
87	Reliability through redundant parallelism for micro-satellite computing. <i>Transactions on Embedded Computing Systems</i> , 2010 , 9, 1-25	1.8	6
86	Spatio-Temporal Attention Pooling for Audio Scene Classification		6
85	Speech and Audio Processing: A MATLAB [®] -based Approach 2016 ,		6
84	LID-senone Extraction via Deep Neural Networks for End-to-End Language Identification		6
83	Source-Aware Context Network for Single-Channel Multi-Speaker Speech Separation 2018 ,		6
82	Deep Bottleneck Feature for Image Classification 2015 ,		5
81	Shaping Spectral Leakage for IEEE 802.11p Vehicular Communications 2014 ,		5
80	GPS multipath mitigation: a nonlinear regression approach. <i>GPS Solutions</i> , 2012 , 17, 371	4.4	5
79	Speech Recognition for Smart Homes 2008 ,		5
78	Fault tolerance through redundant COTS components for satellite processing applications		5
77	Intelligibility evaluation of GSM coder for Mandarin speech using CDRT. <i>Speech Communication</i> , 2002 , 38, 161-165	2.8	5
76	An Effective Deep Embedding Learning Architecture for Speaker Verification		5
75	Self-Attention Generative Adversarial Network for Speech Enhancement 2021 ,		5
74	TimeFrequency Feature Fusion for Noise Robust Audio Event Classification. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 1672-1687	2.2	5
73	Square-rich fixed point polynomial evaluation on FPGAs 2014 ,		4
72	Reverse engineering of embedded consumer electronic systems 2011 ,		4

71	A Methodology for Improving PESQ accuracy for Chinese Speech 2005 ,		4
70	Inception-Based Network and Multi-Spectrogram Ensemble Applied To Predict Respiratory Anomalies and Lung Diseases. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 253-256</i>	0.9	4
69	Regeneration of Speech in Voice-Loss Patients. <i>IFMBE Proceedings, 2009, 1065-1068</i>	0.2	4
68	Mismatched training data enhancement for automatic recognition of children's speech using DNN-HMM 2016 ,		4
67	Deep Feature Embedding and Hierarchical Classification for Audio Scene Classification 2020 ,		3
66	Open-Source and Consumer Electronics—the Back Door to World Domination: Why Reinvent the Wheel (Especially When Nice People Are Giving Wheels Away for Free)? <i>IEEE Consumer Electronics Magazine, 2012, 1, 53-58</i>	3.2	3
65	Measuring resonances of the vocal tract using frequency sweeps at the lips 2012 ,		3
64	LSP analysis and processing for speech coders. <i>Electronics Letters, 1997, 33, 743</i>	1.1	3
63	Subjective Intelligibility Testing of Chinese Speech. <i>IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 23-33</i>		3
62	Speech recognition engine adaptations for smart home dialogues 2007 ,		3
61	Extension of proposal of standards for intelligibility tests of Chinese speech: CDRT-tone. <i>IET Computer Vision, 2003, 150, 1</i>		3
60	Local coding based matching kernel method for image classification. <i>PLoS ONE, 2014, 9, e103575</i>	3.7	3
59	Early Detection of Continuous and Partial Audio Events Using CNN		3
58	End-to-End Language Identification Using High-Order Utterance Representation with Bilinear Pooling		3
57	Learning compact structural representations for audio events using regressor banks 2016 ,		3
56	Image classification with CNN-based Fisher vector coding 2016 ,		3
55	A training-based speech regeneration approach with cascading mapping models. <i>Computers and Electrical Engineering, 2017, 62, 601-611</i>	4.3	2
54	A Spectral Glottal Flow Model for Source-filter Separation of Speech 2019 ,		2

53	Speech reconstruction using a deep partially supervised neural network. <i>Healthcare Technology Letters</i> , 2017 , 4, 129-133	1.9	2
52	Exemplar based language recognition method for short-duration speech segments 2013 ,		2
51	A Perspective on the Experiential Learning of Computer Architecture 2010 ,		2
50	Spectral Enhancement of Whispered Speech Based on Probability Mass Function 2010 ,		2
49	Neural network-assisted reconstruction of full polarimetric SAR information 2010 ,		2
48	Point-to-Point OMNeT++ Based Simulation of Reliable Transmission Using Realistic Segmentation and Reassembly with Error Control 2010 ,		2
47	Fast and accurate GCPS selection scheme for SAR image registration based on an improved Trajkovic corner detector 2011 ,		2
46	Linux as a teaching aid for embedded systems 2007 ,		2
45	Time reversal space time block coding with channel estimation errors		2
44	Link Layer Error Mitigation in Rural UHF-MIMO Linking Systems 2005 ,		2
43	Robust Sound Event Detection in Continuous Audio Environments		2
42	An Effective Speaker Recognition Method Based on Joint Identification and Verification Supervisions		2
41	Speech Rehabilitation Methods for Laryngectomised Patients. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 597-607	0.2	2
40	Improvements on Deep Bottleneck Network based I-Vector Representation for Spoken Language Identification		2
39	Automated Assessment of Glottal Dysfunction Through Unified Acoustic Voice Analysis. <i>Journal of Voice</i> , 2020 ,	1.9	2
38	. <i>IEEE Access</i> , 2020 , 8, 108988-108999	3.5	2
37	In-Ear Electrode EEG for Practical SSVEP BCI. <i>Technologies</i> , 2020 , 8, 63	2.4	2
36	Multi-View Audio And Music Classification 2021 ,		2

35	An Improved Mean Teacher Based Method for Large Scale Weakly Labeled Semi-Supervised Sound Event Detection 2021 ,		2
34	Incandescent Bulb and LED Brake Lights: Novel Analysis of Reaction Times. <i>IEEE Access</i> , 2021 , 9, 29143-29152		2
33	Efficient multi-standard cognitive radios on FPGAs 2014 ,		1
32	Efficient Large Integer Squarers on FPGA 2013 ,		1
31	Multi-task deep neural network acoustic models with model adaptation using discriminative speaker identity for whisper recognition 2015 ,		1
30	Tone confusion in spoken and whispered Mandarin Chinese 2014 ,		1
29	Performance analysis of adaptive modulation and transmit antenna selection with channel prediction errors and feedback delay. <i>IET Communications</i> , 2013 , 7, 1852-1862	1.3	1
28	Virtualized Development and Testing of Embedded Computing Clusters 2011 ,		1
27	Hardware-accelerated edge detection for polarimetric synthetic aperture radar data 2009 ,		1
26	Analysis of adaptive modulation with antenna selection under channel prediction errors 2011 ,		1
25	Channel prediction in non-regenerative multi-antenna relay selection systems. <i>IET Communications</i> , 2012 , 6, 2027-2032	1.3	1
24	MetroBuzz: Interactive 3D visualization of spatiotemporal data 2012 ,		1
23	Joint audio video quality evaluation for distance or online education systems 2009 ,		1
22	Perceptual audio data concealment and watermarking scheme using direct frequency domain substitution. <i>IET Computer Vision</i> , 2002 , 149, 335		1
21	Modelling WSNs Using OMNeT++ 2012 , 319-340		1
20	A New Time-Frequency Attention Tensor Network for Language Identification. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 2744-2758	2.2	1
19	Enabling Early Audio Event Detection with Neural Networks 2018 ,		1
18	Improved Conditional Generative Adversarial Net Classification For Spoken Language Recognition 2018 ,		1

17	D-MONA: A dilated mixed-order non-local attention network for speaker and language recognition. <i>Neural Networks</i> , 2021 , 139, 201-211	9.1	1
16	A new mechanical index for gauging the human bioeffects of low frequency ultrasound. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1964-7	0.9	0
15	The art of public speaking for engineers. <i>IEEE Potentials</i> , 2006 , 25, 18-21	1	0
14	Mouth State Detection From Low-Frequency Ultrasonic Reflection. <i>Circuits, Systems, and Signal Processing</i> , 2015 , 34, 1279-1304	2.2	
13	Mobile Communications Using Source-Selected Multi-Antenna AF Relays Over Dual-Hop Nakagami- m Channels. <i>Wireless Personal Communications</i> , 2013 , 71, 3045-3057	1.9	
12	TCP/IP link layer error mitigation for MIMO wireless links. <i>Telecommunication Systems</i> , 2012 , 50, 137-148	2.3	
11	Linear predictive analysis for ultrasonic speech. <i>Electronics Letters</i> , 2010 , 46, 387	1.1	
10	Basic audio processing	7-37	
9	The implementation of a high accuracy optical measurement technique of particular interest to miniature optics. <i>Microwave and Optical Technology Letters</i> , 1991 , 4, 524-527	1.2	
8	Virtualized Development and Testing for Embedded Cluster Computing. <i>International Journal of Networking and Computing</i> , 2012 , 2, 160-187	0.2	
7	Multi-touch Wall Displays for Informational and Interactive Collaborative Space. <i>Communications in Computer and Information Science</i> , 2012 , 318-338	0.3	
6	Audio analysis	195-222	
5	Cross-layer TCP/IP segmentation, re-routing and adaptive modulation techniques to exploit instantaneous BER variations on parallel subchannels. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2016 , 13, 96-108	0.6	
4	Variance Normalised Features for Language and Dialect Discrimination. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 3621-3638	2.2	
3	Investigating the Cognitive Response of Brake Lights in Initiating Braking Action Using EEG. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-6	6.1	
2	Multi-Granularity Sequence Alignment Mapping for Encoder-Decoder Based End-to-End ASR. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021 , 29, 2816-2828	3.6	
1	A Low-Complexity Deep Learning Framework For Acoustic Scene Classification	2022, 26-32	