

Ian V Mcloughlin

List of Publications by Year in Descending Order

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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	A Low-Complexity Deep Learning Framework For Acoustic Scene Classification 2022 , 26-32		
141	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</i> , 2021 , 2021, 253-256	0.9	4
140	Self-Attention Generative Adversarial Network for Speech Enhancement 2021 ,		5
139	Multi-View Audio And Music Classification 2021 ,		2
138	An Improved Mean Teacher Based Method for Large Scale Weakly Labeled Semi-Supervised Sound Event Detection 2021 ,		2
137	Towards More Accurate Automatic Sleep Staging via Deep Transfer Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1787-1798	5	22
136	Variance Normalised Features for Language and Dialect Discrimination. <i>Circuits, Systems, and Signal Processing</i> , 2021 , 40, 3621-3638	2.2	
135	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	
134	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	
133	Robust acoustic scene classification using a multi-spectrogram encoder-decoder framework 2021 , 110, 102943		7
132	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
131	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
130	Incandescent Bulb and LED Brake Lights: Novel Analysis of Reaction Times. <i>IEEE Access</i> , 2021 , 9, 29143-29152	3.52	2
129	Deep Feature Embedding and Hierarchical Classification for Audio Scene Classification 2020 ,		3
128	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
127	A New Time-Frequency Attention Tensor Network for Language Identification. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 2744-2758	2.2	1
126	Automated Assessment of Glottal Dysfunction Through Unified Acoustic Voice Analysis. <i>Journal of Voice</i> , 2020 ,	1.9	2

125	. <i>IEEE Access</i> , 2020 , 8, 108988-108999	3.5	2
124	In-Ear Electrode EEG for Practical SSVEP BCI. <i>Technologies</i> , 2020 , 8, 63	2.4	2
123	Improving GANs for Speech Enhancement. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1700-1704	3.2	31
122	TimeFrequency Feature Fusion for Noise Robust Audio Event Classification. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 1672-1687	2.2	5
121	2019 ,		6
120	A Region Based Attention Method for Weakly Supervised Sound Event Detection and Classification 2019 ,		6
119	A Spectral Glottal Flow Model for Source-filter Separation of Speech 2019 ,		2
118	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
117	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
116	A Conditional Generative Model for Speech Enhancement. <i>Circuits, Systems, and Signal Processing</i> , 2018 , 37, 5005-5022	2.2	7
115	Enabling Early Audio Event Detection with Neural Networks 2018 ,		1
114	Improved Conditional Generative Adversarial Net Classification For Spoken Language Recognition 2018 ,		1
113	Source-Aware Context Network for Single-Channel Multi-Speaker Speech Separation 2018 ,		6
112	A training-based speech regeneration approach with cascading mapping models. <i>Computers and Electrical Engineering</i> , 2017 , 62, 601-611	4.3	2
111	Continuous robust sound event classification using time-frequency features and deep learning. <i>PLoS ONE</i> , 2017 , 12, e0182309	3.7	16
110	. <i>IEEE Access</i> , 2017 , 5, 21002-21015	3.5	24
109	What makes audio event detection harder than classification? 2017 ,		10
108	Speech reconstruction using a deep partially supervised neural network. <i>Healthcare Technology Letters</i> , 2017 , 4, 129-133	1.9	2

107	Improved i-Vector Representation for Speaker Diarization. <i>Circuits, Systems, and Signal Processing</i> , 2016 , 35, 3393-3404	2.2	10
106	Spectrally efficient emission mask shaping for OFDM cognitive radios 2016 , 50, 150-161		6
105	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
104	Speech and Audio Processing: A MATLAB [®] -based Approach 2016 ,		6
103	Mismatched training data enhancement for automatic recognition of children's speech using DNN-HMM 2016 ,		4
102	Learning compact structural representations for audio events using regressor banks 2016 ,		3
101	Image classification with CNN-based Fisher vector coding 2016 ,		3
100	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	
99	A new variance-based approach for discriminative feature extraction in machine hearing classification using spectrogram features 2016 , 54, 119-128		10
98	Compact convolutional neural network transfer learning for small-scale image classification 2016 ,		8
97	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
96	Mouth State Detection From Low-Frequency Ultrasonic Reflection. <i>Circuits, Systems, and Signal Processing</i> , 2015 , 34, 1279-1304	2.2	
95	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
94	Deep Bottleneck Feature for Image Classification 2015 ,		5
93	Improved language identification using deep bottleneck network 2015 ,		10
92	Robust sound event recognition using convolutional neural networks 2015 ,		101
91	Multi-task deep neural network acoustic models with model adaptation using discriminative speaker identity for whisper recognition 2015 ,		1
90	Robust and Efficient OFDM Synchronization for FPGA-Based Radios. <i>Circuits, Systems, and Signal Processing</i> , 2014 , 33, 2475-2493	2.2	9

89	Efficient multi-standard cognitive radios on FPGAs 2014 ,		1
88	Super-Audible Voice Activity Detection. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2014 , 22, 1424-1433	3.6	7
87	Square-rich fixed point polynomial evaluation on FPGAs 2014 ,		4
86	Deep bottleneck features for spoken language identification. <i>PLoS ONE</i> , 2014 , 9, e100795	3.7	31
85	Whisper-to-speech conversion using restricted Boltzmann machine arrays. <i>Electronics Letters</i> , 2014 , 50, 1781-1782	1.1	10
84	Tone confusion in spoken and whispered Mandarin Chinese 2014 ,		1
83	Shaping Spectral Leakage for IEEE 802.11p Vehicular Communications 2014 ,		5
82	Performance evaluation of deep bottleneck features for spoken language identification 2014 ,		8
81	Classifying watermelon ripeness by analysing acoustic signals using mobile devices. <i>Personal and Ubiquitous Computing</i> , 2014 , 18, 1753-1762	2.1	11
80	Local coding based matching kernel method for image classification. <i>PLoS ONE</i> , 2014 , 9, e103575	3.7	3
79	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	
78	Efficient Large Integer Squarers on FPGA 2013 ,		1
77	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
76	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
75	Exemplar based language recognition method for short-duration speech segments 2013 ,		2
74	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
73	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
72	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

71	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012 , 20, 1217-1232		20
70	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
69	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</i> , 2012 , 1, 53-58	3.2	3
68	TCP/IP link layer error mitigation for MIMO wireless links. <i>Telecommunication Systems</i> , 2012 , 50, 137-148	2.3	
67	Measuring resonances of the vocal tract using frequency sweeps at the lips 2012 ,		3
66	A comprehensive vowel space for whispered speech. <i>Journal of Voice</i> , 2012 , 26, e49-56	1.9	28
65	Fourier transform based scalable image quality measure. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 3364-77	8.7	74
64	GPS multipath mitigation: a nonlinear regression approach. <i>GPS Solutions</i> , 2012 , 17, 371	4.4	5
63	Digital Urban Modeling and Simulation. <i>Communications in Computer and Information Science</i> , 2012 ,	0.3	8
62	Channel prediction in non-regenerative multi-antenna relay selection systems. <i>IET Communications</i> , 2012 , 6, 2027-2032	1.3	1
61	MetroBuzz: Interactive 3D visualization of spatiotemporal data 2012 ,		1
60	Virtualized Development and Testing for Embedded Cluster Computing. <i>International Journal of Networking and Computing</i> , 2012 , 2, 160-187	0.2	
59	Multi-touch Wall Displays for Informational and Interactive Collaborative Space. <i>Communications in Computer and Information Science</i> , 2012 , 318-338	0.3	
58	Modelling WSNs Using OMNeT++ 2012 , 319-340		1
57	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
56	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
55	Virtualized Development and Testing of Embedded Computing Clusters 2011 ,		1
54	Reverse engineering of embedded consumer electronic systems 2011 ,		4

53	Fast and accurate GCPS selection scheme for SAR image registration based on an improved Trajkovic corner detector 2011 ,		2
52	Analysis of adaptive modulation with antenna selection under channel prediction errors 2011 ,		1
51	Linear predictive analysis for ultrasonic speech. <i>Electronics Letters</i> , 2010 , 46, 387	1.1	
50	Reliability through redundant parallelism for micro-satellite computing. <i>Transactions on Embedded Computing Systems</i> , 2010 , 9, 1-25	1.8	6
49	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
48	A Perspective on the Experiential Learning of Computer Architecture 2010 ,		2
47	Spectral Enhancement of Whispered Speech Based on Probability Mass Function 2010 ,		2
46	Neural network-assisted reconstruction of full polarimetric SAR information 2010 ,		2
45	Point-to-Point OMNeT++ Based Simulation of Reliable Transmission Using Realistic Segmentation and Reassembly with Error Control 2010 ,		2
44	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2010 , 18, 117-125		9
43	Non-intrusive Speech Quality Assessment with Support Vector Regression. <i>Lecture Notes in Computer Science</i> , 2010 , 325-335	0.9	10
42	Speech Rehabilitation Methods for Laryngectomised Patients. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 597-607	0.2	2
41	Hardware-accelerated edge detection for polarimetric synthetic aperture radar data 2009 ,		1
40	Applied Speech and Audio Processing: With Matlab Examples 2009 ,		46
39	2009 ,		7
38	Joint audio video quality evaluation for distance or online education systems 2009 ,		1
37	Keypress biometrics for user validation in mobile consumer devices 2009 ,		8
36	Regeneration of Speech in Voice-Loss Patients. <i>IFMBE Proceedings</i> , 2009 , 1065-1068	0.2	4

35	Subjective Intelligibility Testing of Chinese Speech. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 23-33		3
34	A Group Ring Construction of the Extended Binary Golay Code. <i>IEEE Transactions on Information Theory</i> , 2008 , 54, 4381-4383	2.8	18
33	Secure Embedded Systems: The Threat of Reverse Engineering 2008 ,		18
32	Analysis-by-synthesis method for whisper-speech reconstruction 2008 ,		8
31	Speech Recognition for Smart Homes 2008 ,		5
30	Line spectral pairs. <i>Signal Processing</i> , 2008 , 88, 448-467	4.4	26
29	Speech recognition engine adaptations for smart home dialogues 2007 ,		3
28	Linux as a teaching aid for embedded systems 2007 ,		2
27	The art of public speaking for engineers. <i>IEEE Potentials</i> , 2006 , 25, 18-21	1	0
26	An FPGA-Based MIMO and Space-Time Processing Platform. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006 , 2006, 1	1.9	8
25	A Methodology for Improving PESQ accuracy for Chinese Speech 2005 ,		4
24	Link Layer Error Mitigation in Rural UHF-MIMO Linking Systems 2005 ,		2
23	Extension of proposal of standards for intelligibility tests of Chinese speech: CDRT-tone. <i>IET Computer Vision</i> , 2003 , 150, 1		3
22	Perceptual audio data concealment and watermarking scheme using direct frequency domain substitution. <i>IET Computer Vision</i> , 2002 , 149, 335		1
21	Intelligibility evaluation of GSM coder for Mandarin speech using CDRT. <i>Speech Communication</i> , 2002 , 38, 161-165	2.8	5
20	Proposal of standards for intelligibility tests of Chinese speech. <i>IET Computer Vision</i> , 2000 , 147, 254		12
19	LSP analysis and processing for speech coders. <i>Electronics Letters</i> , 1997 , 33, 743	1.1	3
18	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	

17	Basic audio processing7-37	
16	Fault tolerance through redundant COTS components for satellite processing applications	5
15	Time reversal space time block coding with channel estimation errors	2
14	Robust Sound Event Detection in Continuous Audio Environments	2
13	An Attention Pooling Based Representation Learning Method for Speech Emotion Recognition	47
12	An Improved Deep Embedding Learning Method for Short Duration Speaker Verification	7
11	A New Time-Frequency Attention Mechanism for TDNN and CNN-LSTM-TDNN, with Application to Language Identification	7
10	Improving Aggregation and Loss Function for Better Embedding Learning in End-to-End Speaker Verification System	16
9	An Effective Deep Embedding Learning Architecture for Speaker Verification	5
8	A Robust Framework for Acoustic Scene Classification	9
7	An Effective Speaker Recognition Method Based on Joint Identification and Verification Supervisions	2
6	Early Detection of Continuous and Partial Audio Events Using CNN	3
5	Spatio-Temporal Attention Pooling for Audio Scene Classification	6
4	LID-senone Extraction via Deep Neural Networks for End-to-End Language Identification	6
3	Improvements on Deep Bottleneck Network based I-Vector Representation for Spoken Language Identification	2
2	End-to-End Language Identification Using High-Order Utterance Representation with Bilinear Pooling	3
1	Audio analysis195-222	