

Emmanouil Benetos

List of Publications by Year in descending order

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85
papers

2,154
citations

471509

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345221

36
g-index

86
all docs

86
docs citations

86
times ranked

1368
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and Classification of Acoustic Scenes and Events. IEEE Transactions on Multimedia, 2015, 17, 1733-1746.	7.2	376
2	Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 379-393.	5.8	185
3	Automatic music transcription: challenges and future directions. Journal of Intelligent Information Systems, 2013, 41, 407-434.	3.9	183
4	An End-to-End Neural Network for Polyphonic Piano Music Transcription. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 927-939.	5.8	158
5	Automatic Music Transcription: An Overview. IEEE Signal Processing Magazine, 2019, 36, 20-30.	5.6	133
6	Detection and classification of acoustic scenes and events: An IEEE AASP challenge. , 2013, , .		120
7	Speaker recognition with hybrid features from a deep belief network. Neural Computing and Applications, 2018, 29, 13-19.	5.6	71
8	On-Bird Sound Recordings: Automatic Acoustic Recognition of Activities and Contexts. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1193-1206.	5.8	50
9	SubSpectralNet – Using Sub-spectrogram Based Convolutional Neural Networks for Acoustic Scene Classification. , 2019, , .		49
10	Ensemble Models for Spoofing Detection in Automatic Speaker Verification. , 0, , .		48
11	A Shift-Invariant Latent Variable Model for Automatic Music Transcription. Computer Music Journal, 2012, 36, 81-94.	0.1	44
12	Multiple-instrument polyphonic music transcription using a temporally constrained shift-invariant model. Journal of the Acoustical Society of America, 2013, 133, 1727-1741.	1.1	41
13	Non-Negative Tensor Factorization Applied to Music Genre Classification. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1955-1967.	3.2	36
14	Audio-based Identification of Beehive States. , 2019, , .		35
15	Musical Instrument Classification using Non-Negative Matrix Factorization Algorithms and Subset Feature Selection. , 0, , .		30
16	Computationally Efficient and Robust BIC-Based Speaker Segmentation. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 920-933.	3.2	25
17	Improving Music Genre Classification Using Automatically Induced Harmony Rules. Journal of New Music Research, 2010, 39, 349-361.	0.8	25
18	Joint Multi-Pitch Detection Using Harmonic Envelope Estimation for Polyphonic Music Transcription. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1111-1123.	10.8	24

#	ARTICLE	IF	CITATIONS
19	Detection of overlapping acoustic events using a temporally-constrained probabilistic model. , 2016, , .		21
20	A Morphological Model for Simulating Acoustic Scenes and Its Application to Sound Event Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1854-1864.	5.8	21
21	Towards Complete Polyphonic Music Transcription: Integrating Multi-Pitch Detection and Rhythm Quantization. , 2018, , .		21
22	Polyphonic music transcription using note onset and offset detection. , 2011, , .		18
23	Adaptive Noise Reduction for Sound Event Detection Using Subband-Weighted NMF. Sensors, 2019, 19, 3206.	3.8	18
24	Towards Joint Sound Scene and Polyphonic Sound Event Recognition. , 0, , .		18
25	Comparison of Feature Extraction Methods for Sound-Based Classification of Honey Bee Activity. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 112-122.	5.8	18
26	A neural network approach to audio-assisted movie dialogue detection. Neurocomputing, 2007, 71, 157-166.	5.9	17
27	A hybrid recurrent neural network for music transcription. , 2015, , .		17
28	Deep Learning for Black-Box Modeling of Audio Effects. Applied Sciences (Switzerland), 2020, 10, 638.	2.5	16
29	The Digital Music Lab. Journal on Computing and Cultural Heritage, 2017, 10, 1-21.	2.1	14
30	Analysing The Predictions Of a CNN-Based Replay Spoofing Detection System. , 2018, , .		14
31	A review of manual and computational approaches for the study of world music corpora. Journal of New Music Research, 2018, 47, 176-189.	0.8	13
32	Deep generative variational autoencoding for replay spoof detection in automatic speaker verification. Computer Speech and Language, 2020, 63, 101092.	4.3	12
33	Musical instrument classification using non-negative matrix factorization algorithms. , 0, , .		11
34	Automatic transcription of pitched and unpitched sounds from polyphonic music. , 2014, , .		11
35	Improving instrument recognition in polyphonic music through system integration. , 2014, , .		11
36	Dataset Artefacts in Anti-Spoofing Systems: A Case Study on the ASVspoof 2017 Benchmark. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 3018-3028.	5.8	11

#	ARTICLE	IF	CITATIONS
37	Automatic Speaker Segmentation using Multiple Features and Distance Measures: A Comparison of Three Approaches. , 2006, , .		10
38	Sound event detection in synthetic audio: Analysis of the dcase 2016 task results. , 2017, , .		10
39	Automatic Transcription of Polyphonic Vocal Music. Applied Sciences (Switzerland), 2017, 7, 1285.	2.5	10
40	Automatic speaker change detection with the Bayesian information criterion using MPEG-7 features and a fusion scheme. , 0, , .		9
41	Auditory Spectrum-Based Pitched Instrument Onset Detection. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1968-1977.	3.2	9
42	Automatic transcription of Turkish microtonal music. Journal of the Acoustical Society of America, 2015, 138, 2118-2130.	1.1	9
43	Polyphonic Sound Event Tracking Using Linear Dynamical Systems. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1266-1277.	5.8	9
44	Polyphonic Sound Event and Sound Activity Detection: A Multi-Task Approach. , 2019, , .		9
45	A-CRNN: A Domain Adaptation Model for Sound Event Detection. , 2020, , .		9
46	A computational study on outliers in world music. PLoS ONE, 2017, 12, e0189399.	2.5	9
47	Applying Supervised Classifiers Based on Non-negative Matrix Factorization to Musical Instrument Classification. , 2006, , .		8
48	Optimal neural network feature selection for spatial-temporal forecasting. Chaos, 2019, 29, 063111.	2.5	8
49	The Effect of Spectrogram Reconstruction on Automatic Music Transcription: An Alternative Approach to Improve Transcription Accuracy. , 2021, , .		8
50	Learning and Evaluation Methodologies for Polyphonic Music Sequence Prediction With LSTMs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1328-1341.	5.8	8
51	Big Data for Musicology. , 2014, , .		7
52	City Classification from Multiple Real-World Sound Scenes. , 2019, , .		7
53	Revisiting the Onsets and Frames Model with Additive Attention. , 2021, , .		7
54	Polyphonic Music Sequence Transduction with Meter-Constrained LSTM Networks. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
55	A temporally-constrained convolutive probabilistic model for pitch detection. , 2011, , .		5
56	ANALYSING REPLAY SPOOFING COUNTERMEASURE PERFORMANCE UNDER VARIED CONDITIONS. , 2018, , .		5
57	Adapting the Quality of Experience Framework for Audio Archive Evaluation. , 2019, , .		5
58	Playing Technique Recognition by Joint Time-Frequency Scattering. , 2020, , .		5
59	Joint Multi-Pitch Detection and Score Transcription for Polyphonic Piano Music. , 2021, , .		5
60	Investigating the Perceptual Validity of Evaluation Metrics for Automatic Piano Music Transcription. Transactions of the International Society for Music Information Retrieval, 2020, 3, 68-81.	1.5	5
61	Exploring Transformer's Potential on Automatic Piano Transcription. , 2022, , .		5
62	Improving Lyrics Alignment Through Joint Pitch Detection. , 2022, , .		5
63	Systematic comparison of BIC-based speaker segmentation systems. , 2007, , .		4
64	A supervised classification approach for note tracking in polyphonic piano transcription. Journal of New Music Research, 2018, 47, 249-263.	0.8	4
65	Approaches to Complex Sound Scene Analysis. , 2018, , 215-242.		4
66	Adversarial Unsupervised Domain Adaptation for Harmonic-Percussive Source Separation. IEEE Signal Processing Letters, 2021, 28, 81-85.	3.6	4
67	Prototypical Networks for Domain Adaptation in Acoustic Scene Classification. , 2021, , .		4
68	Adaptive Scattering Transforms for Playing Technique Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1407-1421.	5.8	4
69	Learning motion-difference features using Gaussian restricted Boltzmann machines for efficient human action recognition. , 2014, , .		3
70	From Audio to Music Notation. , 2021, , 693-714.		3
71	Violinist identification based on vibrato features. , 2021, , .		3
72	Alternate level clustering for drum transcription. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
73	Digital music lab: A framework for analysing big music data. , 2016, , .		2
74	Investigating Kernel Shapes and Skip Connections for Deep Learning-Based Harmonic-Percussive Separation. , 2019, , .		2
75	A Study on the Transferability of Adversarial Attacks in Sound Event Classification. , 2020, , .		2
76	Temporally-Constrained Convolutional Probabilistic Latent Component Analysis for Multi-pitch Detection. Lecture Notes in Computer Science, 2012, , 364-371.	1.3	2
77	The temperament police. Early Music, 2014, 42, 579-590.	0.0	1
78	Humanities and engineering perspectives on music transcription. Digital Scholarship in the Humanities, 2022, 37, 747-764.	0.7	1
79	Movie Analysis with Emphasis to Dialogue and Action Scene Detection. , 2008, , 1-21.		1
80	Detecting Cover Songs with Pitch Class Key-Invariant Networks. , 2021, , .		1
81	Incremental Dataset Definition for Large Scale Musicological Research. , 2014, , .		0
82	On the memory properties of recurrent neural models. , 2017, , .		0
83	Automatic Transcription of Diatonic Harmonica Recordings. , 2019, , .		0
84	Audio Impairment Recognition using a Correlation-Based Feature Representation. , 2020, , .		0
85	Modeling Plate and Spring Reverberation Using A DSP-Informed Deep Neural Network. , 2020, , .		0