

Dorien Herremans

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

720
citations

516215

16
h-index

642321

23
g-index

56
all docs

56
docs citations

56
times ranked

390
citing authors

#	ARTICLE	IF	CITATIONS
1	A Functional Taxonomy of Music Generation Systems. <i>ACM Computing Surveys</i> , 2018, 50, 1-30.	16.1	63
2	Machine learning research that matters for music creation: A case study. <i>Journal of New Music Research</i> , 2019, 48, 36-55.	0.6	47
3	Dance Hit Song Prediction. <i>Journal of New Music Research</i> , 2014, 43, 291-302.	0.6	44
4	Toward Robust Audio Spoofing Detection: A Detailed Comparison of Traditional and Learned Features. <i>IEEE Access</i> , 2019, 7, 84229-84241.	2.6	42
5	nnAudio: An on-the-Fly GPU Audio to Spectrogram Conversion Toolbox Using 1D Convolutional Neural Networks. <i>IEEE Access</i> , 2020, 8, 161981-162003.	2.6	38
6	Morpheus: Generating Structured Music with Constrained Patterns and Tension. <i>IEEE Transactions on Affective Computing</i> , 2019, 10, 510-523.	5.7	35
7	Generating structured music for bagana using quality metrics based on Markov models. <i>Expert Systems With Applications</i> , 2015, 42, 7424-7435.	4.4	32
8	Development of Machine Learning for Asthmatic and Healthy Voluntary Cough Sounds: A Proof of Concept Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2833.	1.3	27
9	Singing voice separation using a deep convolutional neural network trained by ideal binary mask and cross entropy. <i>Neural Computing and Applications</i> , 2020, 32, 1037-1050.	3.2	26
10	Music, Computing, and Health: A Roadmap for the Current and Future Roles of Music Technology for Health Care and Well-Being. <i>Music & Science</i> , 2021, 4, 205920432199770.	0.6	26
11	From context to concept: exploring semantic relationships in music with word2vec. <i>Neural Computing and Applications</i> , 2020, 32, 1023-1036.	3.2	25
12	Singing Voice Conversion with Disentangled Representations of Singer and Vocal Technique Using Variational Autoencoders. , 2020, , .		22
13	Evaluating the Effectiveness of an Augmented Reality Game Promoting Environmental Action. <i>Sustainability</i> , 2021, 13, 13912.	1.6	22
14	Composing fifth species counterpoint music with a variable neighborhood search algorithm. <i>Expert Systems With Applications</i> , 2013, 40, 6427-6437.	4.4	20
15	Composing first species counterpoint with a variable neighbourhood search algorithm. <i>Journal of Mathematics and the Arts</i> , 2012, 6, 169-189.	0.1	18
16	Classification and Generation of Composer-Specific Music Using Global Feature Models and Variable Neighborhood Search. <i>Computer Music Journal</i> , 2015, 39, 71-91.	0.3	17
17	Underwater Acoustic Communication Receiver Using Deep Belief Network. <i>IEEE Transactions on Communications</i> , 2021, 69, 3698-3708.	4.9	16
18	A variable neighborhood search algorithm to generate piano fingerings for polyphonic sheet music. <i>International Transactions in Operational Research</i> , 2017, 24, 509-535.	1.8	14

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19	The emergence of deep learning: new opportunities for music and audio technologies. <i>Neural Computing and Applications</i> , 2020, 32, 913-914.	3.2	14
20	Morpheus: automatic music generation with recurrent pattern constraints and tension profiles. , 2016, , .		12
21	Asthmatic versus healthy child classification based on cough and vocalised /É:/ sounds. <i>Journal of the Acoustical Society of America</i> , 2020, 148, EL253-EL259.	0.5	11
22	ReconVAT: A Semi-Supervised Automatic Music Transcription Framework for Low-Resource Real-World Data. , 2021, , .		10
23	The Impact of Audio Input Representations on Neural Network based Music Transcription. , 2020, , .		9
24	Harmonic Structure Predicts the Enjoyment of Uplifting Trance Music. <i>Frontiers in Psychology</i> , 2016, 7, 1999.	1.1	8
25	Generating Lead Sheets with Affect: A Novel Conditional seq2seq Framework. , 2021, , .		8
26	The Effect of Spectrogram Reconstruction on Automatic Music Transcription: An Alternative Approach to Improve Transcription Accuracy. , 2021, , .		8
27	AttendAffectNetâ€“Emotion Prediction of Movie Viewers Using Multimodal Fusion with Self-Attention. <i>Sensors</i> , 2021, 21, 8356.	2.1	8
28	Regression-based Music Emotion Prediction using Triplet Neural Networks. , 2020, , .		7
29	Revisiting the Onsets and Frames Model with Additive Attention. , 2021, , .		7
30	Generating guitar solos by integer programming. <i>Journal of the Operational Research Society</i> , 2018, 69, 971-985.	2.1	6
31	A novel music-based game with motion capture to support cognitive and motor function in the elderly. , 2019, , .		6
32	Multimodal Deep Models for Predicting Affective Responses Evoked by Movies. , 2019, , .		6
33	AttendAffectNet: Self-Attention based Networks for Predicting Affective Responses from Movies. , 2021, , .		6
34	Deep Neural Network-Based Respiratory Pathology Classification Using Cough Sounds. <i>Sensors</i> , 2021, 21, 5555.	2.1	6
35	A Multi-modal Platform for Semantic Music Analysis: Visualizing Audio-and Score-Based Tension. , 2017, , .		5
36	Music and motion-detection: A game prototype for rehabilitation and strengthening in the elderly. , 2017, , .		5

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37	FuX, an Android app that generates counterpoint. , 2013, , .		4
38	Minimally Simple Binaural Room Modeling Using a Single Feedback Delay Network. AES: Journal of the Audio Engineering Society, 2018, 66, 791-807.	0.8	4
39	Latent Space Representation for Multi-Target Speaker Detection and Identification with a Sparse Dataset Using Triplet Neural Networks. , 2019, , .		4
40	Hierarchical Recurrent Neural Networks for Conditional Melody Generation with Long-term Structure. , 2021, , .		4
41	Composer Classification Models for Music-Theory Building. , 2016, , 369-392.		4
42	IMMA-Emo. , 2017, , .		3
43	Perceptual evaluation of measures of spectral variance. Journal of the Acoustical Society of America, 2018, 143, 3300-3311.	0.5	3
44	Doppler Invariant Demodulation for Shallow Water Acoustic Communications Using Deep Belief Networks. , 2019, , .		3
45	aiSTROMâ€“A Roadmap for Developing a Successful AI Strategy. IEEE Access, 2021, 9, 155826-155838.	2.6	3
46	Conditional Drums Generation Using Compound Word Representations. Lecture Notes in Computer Science, 2022, , 179-194.	1.0	3
47	PerceptionGAN: Real-world Image Construction from Provided Text through Perceptual Understanding. , 2020, , .		2
48	A Hybrid Fuzzy Logic-Neural Network Approach for Multi-Path Separation of Underwater Acoustic Signals. , 2019, , .		1
49	Acoustic prediction of flowrate: varying liquid jet stream onto a free surface. , 2020, , .		1
50	MusIAC: An Extensible Generative Framework for Music Infilling Applications with Multi-level Control. Lecture Notes in Computer Science, 2022, , 341-356.	1.0	1
51	Single Image Video Prediction with Auto-Regressive GANs. Sensors, 2022, 22, 3533.	2.1	1
52	Compose \$equiv \$ \$ â% compute. 4or, 2015, 13, 335-336.	1.0	0
53	A Novel Interface for the Graphical Analysis of Music Practice Behaviors. Frontiers in Psychology, 2018, 9, 2292.	1.1	0
54	The impact of musical structure on enjoyment and absorptive listening states in trance music. , 2019, , 254-270.		0