

# Pedro Vera Candeas

## List of Publications by Year in descending order

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73  
papers

671  
citations

687220

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h-index

713332

21  
g-index

75  
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75  
docs citations

75  
times ranked

493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambisonics domain Singing Voice Separation combining Deep Neural Network and Direction Aware Multichannel NMF. , 2021, , .		2
2	A constrained tonal semi-supervised non-negative matrix factorization to classify presence/absence of wheezing in respiratory sounds. Applied Acoustics, 2020, 161, 107188.	1.7	12
3	Wheezing Sound Separation Based on Informed Inter-Segment Non-Negative Matrix Partial Co-Factorization. Sensors, 2020, 20, 2679.	2.1	7
4	Combining a recursive approach via non-negative matrix factorization and Gini index sparsity to improve reliable detection of wheezing sounds. Expert Systems With Applications, 2020, 147, 113212.	4.4	7
5	Online score-informed source separation in polyphonic mixtures using instrument spectral patterns. Computational and Mathematical Methods, 2019, 1, e1040.	0.3	2
6	Monitoring the internal quality of ornamental stone using impact-echo testing. Applied Acoustics, 2019, 155, 180-189.	1.7	10
7	Detection and classification of internal defects in limestone blocks based on a deconvolution technique with SI-PLCA applied to GPR signals. Research in Nondestructive Evaluation, 2019, 30, 350-379.	0.5	1
8	Real-time Soundprism. Journal of Supercomputing, 2019, 75, 1594-1609.	2.4	2
9	A novel wheezing detection approach based on constrained non-negative matrix factorization. Applied Acoustics, 2019, 148, 276-288.	1.7	15
10	Online/offline score informed music signal decomposition: application to minus one. Eurasip Journal on Audio, Speech, and Music Processing, 2019, 2019, .	1.3	5
11	Multichannel Blind Sound Source Separation Using Spatial Covariance Model With Level and Time Differences and Nonnegative Matrix Factorization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1512-1527.	4.0	21
12	Multi-Source Localization Using a DOA Kernel Based Spatial Covariance Model and Complex Nonnegative Matrix Factorization. , 2018, , .		3
13	Wheezing Sound Separation Based on Constrained Non-Negative Matrix Factorization. , 2018, , .		2
14	Multimodal speaker diarization for meetings using volume-evaluated SRP-PHAT and video analysis. Multimedia Tools and Applications, 2018, 77, 27685-27707.	2.6	6
15	Parallel online time warping for real-time audio-to-score alignment in multi-core systems. Journal of Supercomputing, 2017, 73, 126-138.	2.4	14
16	A non-negative matrix factorization approach based on spectro-temporal clustering to extract heart sounds. Applied Acoustics, 2017, 125, 7-19.	1.7	28
17	A novel method to remove GPR background noise based on the similarity of non-neighboring regions. Journal of Applied Geophysics, 2017, 144, 188-203.	0.9	8
18	An efficient musical accompaniment parallel system for mobile devices. Journal of Supercomputing, 2017, 73, 343-353.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Utilization of Integrated Geophysical Techniques to Delineate the Extraction of Mining Bench of Ornamental Rocks (Marble). Remote Sensing, 2017, 9, 1322.	1.8	8
20	Tempo Driven Audio-to-Score Alignment Using Spectral Decomposition and Online Dynamic Time Warping. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-20.	2.9	10
21	Gunshot detection and localization based on Non-negative Matrix Factorization and SRP-hat. , 2016, , .		4
22	A score-informed shift-invariant extension of complex matrix factorization for improving the separation of overlapped partials in music recordings. , 2016, , .		6
23	Constrained non-negative matrix factorization for score-informed piano music restoration. , 2016, 50, 240-257.		16
24	Compositional model for speech denoising based on source/filter speech representation and smoothness/sparseness noise constraints. Speech Communication, 2016, 78, 84-99.	1.6	5
25	Concentration measurement of yeast suspensions using high frequency ultrasound backscattering. Ultrasonics, 2016, 64, 151-161.	2.1	30
26	A TEACHING EXPERIENCE BEYOND MATHEMATICAL EQUATIONS: HOW TO CREATE A PHYSICAL SPREAD-SPECTRUM MULTIUSER TRANSMISSION ENVIRONMENT USING HARDWARE RESOURCES. INTED Proceedings, 2016, , .	0.0	0
27	AN IMPROVED EDUCATIONAL SOFTWARE FOR LEARNING SPREAD-SPECTRUM COMMUNICATIONS OVER A REAL ACOUSTIC CHANNEL USING AUDIO HARDWARE. INTED Proceedings, 2016, , .	0.0	0
28	Online Score-Informed Source Separation with Adaptive Instrument Models. Journal of New Music Research, 2015, 44, 83-96.	0.6	15
29	Ground-penetrating radar method used for the characterisation of ornamental stone quarries. Construction and Building Materials, 2015, 77, 439-447.	3.2	13
30	Monophonic constrained non-negative sparse coding using instrument models for audio separation and transcription of monophonic source-based polyphonic mixtures. Multimedia Tools and Applications, 2014, 72, 925-949.	2.6	8
31	Voicing detection based on adaptive aperiodicity thresholding for speech enhancement in non-stationary noise. IET Signal Processing, 2014, 8, 119-130.	0.9	4
32	Percussive/harmonic sound separation by non-negative matrix factorization with smoothness/sparseness constraints. Eurasip Journal on Audio, Speech, and Music Processing, 2014, 2014, .	1.3	20
33	Nonnegative signal factorization with learnt instrument models for sound source separation in close-microphone recordings. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	15
34	Constrained non-negative sparse coding using learnt instrument templates for realtime music transcription. Engineering Applications of Artificial Intelligence, 2013, 26, 1671-1680.	4.3	21
35	Multiple Instrument Mixtures Source Separation Evaluation Using Instrument-Dependent NMF Models. Lecture Notes in Computer Science, 2012, , 380-387.	1.0	3
36	Musical Instrument Sound Multi-Excitation Model for Non-Negative Spectrogram Factorization. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1144-1158.	7.3	36

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37	Low-complexity F0-based speech/nonspeech discrimination approach for digital hearing aids. Multimedia Tools and Applications, 2011, 54, 291-319.	2.6	7
38	Two-stage cascaded classification approach based on genetic fuzzy learning for speech/music discrimination. Engineering Applications of Artificial Intelligence, 2010, 23, 151-159.	4.3	8
39	Adaptive Signal Modeling Based on Sparse Approximations for Scalable Parametric Audio Coding. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 447-460.	3.8	11
40	Music Scene-Adaptive Harmonic Dictionary for Unsupervised Note-Event Detection. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 473-486.	3.8	11
41	Wavelet-based approach for transient modeling with application to parametric audio coding. , 2010, 20, 123-132.		1
42	Improving multiple-F0 estimation by onset detection for polyphonic music transcription. , 2010, , .		3
43	A Multiple-F0 Estimation Approach Based on Gaussian Spectral Modelling for Polyphonic Music Transcription. Journal of New Music Research, 2010, 39, 93-107.	0.6	13
44	Bark scale-based perceptual matching pursuit for improving sinusoidal audio modeling. , 2009, 19, 229-240.		3
45	New speech/music discrimination approach based on fundamental frequency estimation. Multimedia Tools and Applications, 2009, 41, 253-286.	2.6	9
46	New algorithm based on spectral distance maximization to deal with the overlapping partial problem in noteâ€“event detection. Signal Processing, 2009, 89, 1653-1660.	2.1	1
47	SPEECH/MUSIC DISCRIMINATION BASED ON WARPING TRANSFORMATION AND FUZZY LOGIC FOR INTELLIGENT AUDIO CODING. Applied Artificial Intelligence, 2009, 23, 427-442.	2.0	3
48	Comparing open-source e-learning platforms from adaptivity point of view. , 2009, , .		8
49	A platform designed to motivate the autonomous learning about computer architectures. , 2009, , .		0
50	An experience about collaborative learning in an Engineering course belonging to &#x201C;Dependency and equality in personal autonomy&#x201D; master. , 2009, , .		0
51	Robust subspace-based fundamental frequency estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	14
52	Note-event Detection in Polyphonic Musical Signals based on Harmonic Matching Pursuit and Spectral Smoothness. Journal of New Music Research, 2008, 37, 167-183.	0.6	4
53	Audio Coding Improvement Using Evolutionary Speech/Music Discrimination. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
54	Adaptive network-based fuzzy inference system vs. other classification algorithms for warped LPC-based speech/music discrimination. Engineering Applications of Artificial Intelligence, 2007, 20, 783-793.	4.3	29

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55	New speech/music discrimination approach based on warping transformation and ANFIS. Journal of New Music Research, 2006, 35, 237-247.	0.6	2
56	Expert system for intelligent audio codification based in speech/music discrimination. , 2006, , .		2
57	High-resolution pursuit for detecting flaw echoes close to the material surface in ultrasonic NDT. NDT and E International, 2006, 39, 487-492.	1.7	31
58	Fast implementation of an improved parametric audio coder based on a mixed dictionary. Signal Processing, 2006, 86, 432-443.	2.1	3
59	Sinusoidal modelling using perceptual matching pursuits in the Bark scale for parametric audio coding. IET Computer Vision, 2006, 153, 431.	1.3	5
60	Transient Voltage Stability and Voltage Sag Discrimination by Matching Pursuit-Based Transient Modeling and Neural Networks. Electric Power Components and Systems, 2006, 34, 321-341.	1.0	2
61	New matching pursuit-based algorithm for SNR improvement in ultrasonic NDT. NDT and E International, 2005, 38, 453-458.	1.7	42
62	Adaptive Signal Models for Wide-Band Speech and Audio Compression. Lecture Notes in Computer Science, 2005, , 571-578.	1.0	1
63	Discrimination Between Transient Voltage Stability and Voltage Sag Using Damped Sinusoids-Based Transient Modeling. IEEE Transactions on Power Delivery, 2005, 20, 2644-2650.	2.9	10
64	New matching pursuit based sinusoidal modelling method for audio coding. IET Computer Vision, 2004, 151, 21.	1.3	8
65	Ultrasonic flaw detection using radial basis function networks (RBFNs). Ultrasonics, 2004, 42, 361-365.	2.1	5
66	Transient Modeling by Matching Pursuits With a Wavelet Dictionary for Parametric Audio Coding. IEEE Signal Processing Letters, 2004, 11, 349-352.	2.1	37
67	Use of the symmetrical extension for improving a time-varying wavelet-packet-based audio coder. , 2003, 13, 457-469.		1
68	Sinusoidal Modelling with Complex Exponentials for Speech and Audio Signals. Lecture Notes in Computer Science, 2003, , 1049-1056.	1.0	0
69	Matching pursuit-based signal processing method to improve ultrasonic flaw detection in NDT applications. Electronics Letters, 2003, 39, 413.	0.5	12
70	Algorithm for achieving adaptive tiling of time axis for audio coding purposes. Electronics Letters, 2002, 38, 434.	0.5	3
71	Gaussian pulse shaping of coded OOK formats in wireless infrared links at high bit rates. , 0, , .		0
72	A new sinusoidal modelling approach for parametric speech and audio coding. , 0, , .		0

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73	Discrimination between transient voltage stability and voltage sag using damped sinusoids-based transient modeling. , 0, , .		0