

Pedro Vera Candeas

List of Publications by Year in descending order

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75
all docs

75
docs citations

75
times ranked

493
citing authors

#	ARTICLE	IF	CITATIONS
1	New matching pursuit-based algorithm for SNR improvement in ultrasonic NDT. NDT and E International, 2005, 38, 453-458.	1.7	42
2	Transient Modeling by Matching Pursuits With a Wavelet Dictionary for Parametric Audio Coding. IEEE Signal Processing Letters, 2004, 11, 349-352.	2.1	37
3	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
4	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
5	Concentration measurement of yeast suspensions using high frequency ultrasound backscattering. Ultrasonics, 2016, 64, 151-161.	2.1	30
6	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
7	A non-negative matrix factorization approach based on spectro-temporal clustering to extract heart sounds. Applied Acoustics, 2017, 125, 7-19.	1.7	28
8	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
9	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
10	Percussive/harmonic sound separation by non-negative matrix factorization with smoothness/sparseness constraints. Eurasip Journal on Audio, Speech, and Music Processing, 2014, .	1.3	20
11	Constrained non-negative matrix factorization for score-informed piano music restoration. , 2016, 50, 240-257.		16
12	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
13	Online Score-Informed Source Separation with Adaptive Instrument Models. Journal of New Music Research, 2015, 44, 83-96.	0.6	15
14	A novel wheezing detection approach based on constrained non-negative matrix factorization. Applied Acoustics, 2019, 148, 276-288.	1.7	15
15	Robust subspace-based fundamental frequency estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	14
16	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
17	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
18	Ground-penetrating radar method used for the characterisation of ornamental stone quarries. Construction and Building Materials, 2015, 77, 439-447.	3.2	13

#	ARTICLE	IF	CITATIONS
19	Matching pursuit-based signal processing method to improve ultrasonic flaw detection in NDT applications. Electronics Letters, 2003, 39, 413.	0.5	12
20	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
21	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
22	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
23	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
24	Monitoring the internal quality of ornamental stone using impact-echo testing. Applied Acoustics, 2019, 155, 180-189.	1.7	10
25	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
26	New speech/music discrimination approach based on fundamental frequency estimation. Multimedia Tools and Applications, 2009, 41, 253-286.	2.6	9
27	New matching pursuit based sinusoidal modelling method for audio coding. IET Computer Vision, 2004, 151, 21.	1.3	8
28	Comparing open-source e-learning platforms from adaptivity point of view. , 2009, , .		8
29	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
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	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
32	An efficient musical accompaniment parallel system for mobile devices. Journal of Supercomputing, 2017, 73, 343-353.	2.4	8
33	Utilization of Integrated Geophysical Techniques to Delineate the Extraction of Mining Bench of Ornamental Rocks (Marble). Remote Sensing, 2017, 9, 1322.	1.8	8
34	Audio Coding Improvement Using Evolutionary Speech/Music Discrimination. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
35	Low-complexity F0-based speech/nonspeech discrimination approach for digital hearing aids. Multimedia Tools and Applications, 2011, 54, 291-319.	2.6	7
36	Wheezing Sound Separation Based on Informed Inter-Segment Non-Negative Matrix Partial Co-Factorization. Sensors, 2020, 20, 2679.	2.1	7

#	ARTICLE	IF	CITATIONS
37	Combining a recursive approach via non-negative matrix factorization and Gini index sparsity to improve reliable detection of wheezing sounds. <i>Expert Systems With Applications</i> , 2020, 147, 113212.	4.4	7
38	A score-informed shift-invariant extension of complex matrix factorization for improving the separation of overlapped partials in music recordings. , 2016, , .		6
39	Multimodal speaker diarization for meetings using volume-evaluated SRP-PHAT and video analysis. <i>Multimedia Tools and Applications</i> , 2018, 77, 27685-27707.	2.6	6
40	Ultrasonic flaw detection using radial basis function networks (RBFNs). <i>Ultrasonics</i> , 2004, 42, 361-365.	2.1	5
41	Sinusoidal modelling using perceptual matching pursuits in the Bark scale for parametric audio coding. <i>IET Computer Vision</i> , 2006, 153, 431.	1.3	5
42	Compositional model for speech denoising based on source/filter speech representation and smoothness/sparseness noise constraints. <i>Speech Communication</i> , 2016, 78, 84-99.	1.6	5
43	Online/offline score informed music signal decomposition: application to minus one. <i>Eurasip Journal on Audio, Speech, and Music Processing</i> , 2019, 2019, .	1.3	5
44	Note-event Detection in Polyphonic Musical Signals based on Harmonic Matching Pursuit and Spectral Smoothness. <i>Journal of New Music Research</i> , 2008, 37, 167-183.	0.6	4
45	Voicing detection based on adaptive aperiodicity thresholding for speech enhancement in non-stationary noise. <i>IET Signal Processing</i> , 2014, 8, 119-130.	0.9	4
46	Gunshot detection and localization based on Non-negative Matrix Factorization and SRP-hat. , 2016, , .		4
47	Algorithm for achieving adaptive tiling of time axis for audio coding purposes. <i>Electronics Letters</i> , 2002, 38, 434.	0.5	3
48	Fast implementation of an improved parametric audio coder based on a mixed dictionary. <i>Signal Processing</i> , 2006, 86, 432-443.	2.1	3
49	Bark scale-based perceptual matching pursuit for improving sinusoidal audio modeling. , 2009, 19, 229-240.		3
50	SPEECH/MUSIC DISCRIMINATION BASED ON WARPING TRANSFORMATION AND FUZZY LOGIC FOR INTELLIGENT AUDIO CODING. <i>Applied Artificial Intelligence</i> , 2009, 23, 427-442.	2.0	3
51	Improving multiple-F0 estimation by onset detection for polyphonic music transcription. , 2010, , .		3
52	Multi-Source Localization Using a DOA Kernel Based Spatial Covariance Model and Complex Nonnegative Matrix Factorization. , 2018, , .		3
53	Multiple Instrument Mixtures Source Separation Evaluation Using Instrument-Dependent NMF Models. <i>Lecture Notes in Computer Science</i> , 2012, , 380-387.	1.0	3
54	New speech/music discrimination approach based on warping transformation and ANFIS. <i>Journal of New Music Research</i> , 2006, 35, 237-247.	0.6	2

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55	Expert system for intelligent audio codification based in speech/music discrimination. , 2006, , .		2
56	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
57	Wheezing Sound Separation Based on Constrained Non-Negative Matrix Factorization. , 2018, , .		2
58	Online score-informed source separation in polyphonic mixtures using instrument spectral patterns. Computational and Mathematical Methods, 2019, 1, e1040.	0.3	2
59	Real-time Soundprism. Journal of Supercomputing, 2019, 75, 1594-1609.	2.4	2
60	Ambisonics domain Singing Voice Separation combining Deep Neural Network and Direction Aware Multichannel NMF. , 2021, , .		2
61	Use of the symmetrical extension for improving a time-varying wavelet-packet-based audio coder. , 2003, 13, 457-469.		1
62	Adaptive Signal Models for Wide-Band Speech and Audio Compression. Lecture Notes in Computer Science, 2005, , 571-578.	1.0	1
63	New algorithm based on spectral distance maximization to deal with the overlapping partial problem in note-event detection. Signal Processing, 2009, 89, 1653-1660.	2.1	1
64	Wavelet-based approach for transient modeling with application to parametric audio coding. , 2010, 20, 123-132.		1
65	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
66	Gaussian pulse shaping of coded OOK formats in wireless infrared links at high bit rates. , 0, , .		0
67	Sinusoidal Modelling with Complex Exponentials for Speech and Audio Signals. Lecture Notes in Computer Science, 2003, , 1049-1056.	1.0	0
68	A new sinusoidal modelling approach for parametric speech and audio coding. , 0, , .		0
69	Discrimination between transient voltage stability and voltage sag using damped sinusoids-based transient modeling. , 0, , .		0
70	A platform designed to motivate the autonomous learning about computer architectures. , 2009, , .		0
71	An experience about collaborative learning in an Engineering course belonging to 'Dependency and equality in personal autonomy'; master. , 2009, , .		0
72	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

#	ARTICLE	IF	CITATIONS
73	AN IMPROVED EDUCATIONAL SOFTWARE FOR LEARNING SPREAD-SPECTRUM COMMUNICATIONS OVER A REAL ACOUSTIC CHANNEL USING AUDIO HARDWARE. INTED Proceedings, 2016, , .	0.0	0