Leonardo Tomazeli Duarte

List of Publications by Year
in descending order

71 papers	540 citations	686830 13 h-index	794141 19 g-index
74 all docs	74 docs citations	74 times ranked	385 citing authors

#	Article	IF	Citations
1	Identification of the Choquet integral parameters in the interaction index domain by means of sparse modeling. Expert Systems With Applications, 2022, 187, 115874.	4.4	7
2	Choquet capacity identification for multiple criteria sorting problems: A novel proposal based on Stochastic Acceptability Multicriteria Analysis. Applied Soft Computing Journal, 2022, 120, 108727.	4.1	5
3	Dealing with redundancies among criteria in multicriteria decision making through independent component analysis. Computers and Industrial Engineering, 2022, 169, 108171.	3.4	4
4	SMAA-Choquet-FlowSort: A novel user-preference-driven Choquet classifier applied to supplier evaluation. Expert Systems With Applications, 2022, 207, 117898.	4.4	4
5	A Wavelength-Resolution SAR Change Detection Method Based on Image Stack through Robust Principal Component Analysis. Remote Sensing, 2021, 13, 833.	1.8	8
6	An SOS-Based Algorithm for Source Separation in Nonlinear Mixtures. , 2021, , .		1
7	Shackle's approach towards priority setting and decision-making in Science, Technology, and Innovation. Futures, 2021, 134, 102838.	1.4	0
8	Independent Component Analysis and Bayesian Separation Methods. Springer Briefs in Electrical and Computer Engineering, 2021, , 25-38.	0.3	0
9	Dealing with missing information in data envelopment analysis by means of low-rank matrix completion. Annals of Operations Research, 2020, 286, 719-732.	2.6	1
10	The multilinear model in multicriteria decision making: The case of 2-additive capacities and contributions to parameter identification. European Journal of Operational Research, 2020, 282, 945-956.	3.5	16
11	Change Detection in UWB SAR Images Based on Robust Principal Component Analysis. Remote Sensing, 2020, 12, 1916.	1.8	15
12	A Video-Based Framework for Automatic 3D Localization of Multiple Basketball Players: A Combinatorial Optimization Approach. Frontiers in Bioengineering and Biotechnology, 2020, 8, 286.	2.0	5
13	Adaptive Prediction of Financial Time-Series for Decision-Making Using A Tensorial Aggregation Approach. , 2020, , .		3
14	An Unsupervised Capacity Identification Approach Based on Sobol' Indices. Lecture Notes in Computer Science, 2020, , 66-77.	1.0	0
15	Change detection in UWB VHF SAR images exploiting flight heading diversity through robust principal component analysis. , 2020, , .		0
16	Complex Networks Models and Spectral Decomposition in the Analysis of Swimming Athletes' Performance at Olympic Games. Frontiers in Physiology, 2019, 10, 1134.	1.3	6
17	Application of multi-objective optimization to blind source separation. Expert Systems With Applications, 2019, 131, 60-70.	4.4	1
18	Application of independent component analysis and TOPSIS to deal with dependent criteria in multicriteria decision problems. Expert Systems With Applications, 2019, 122, 262-280.	4.4	19

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19	A second-order statistics method for blind source separation in post-nonlinear mixtures. Signal Processing, 2019, 155, 63-72.	2.1	14
20	A novel low-rank matrix completion approach to estimate missing entries in Euclidean distance matrix. Computational and Applied Mathematics, 2018, 37, 4989-4999.	1.3	6
21	A second-order blind source separation method for bilinear mixtures. Multidimensional Systems and Signal Processing, 2018, 29, 1153-1172.	1.7	4
22	A novel multicriteria decision aiding method based on unsupervised aggregation via the Choquet integral. IEEE Transactions on Engineering Management, 2018, 65, 293-302.	2.4	22
23	A Bayesian Blind Source Separation Method for a Linear-quadratic Model. , 2018, , .		3
24	A UEP Method for Imaging Low-Orbit Satellites Based on CCSDS Recommendations. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1770-1774.	1.4	2
25	Supervised Bayesian Source Separation of Nonlinear Mixtures for Quantitative Analysis of Gas Mixtures. , 2018, 2018, 1230-1233.		4
26	Rank-order principal components. A separation algorithm for ordinal data exploration.. , 2018, , .		2
27	Using Taylor Series Expansions and Second-Order Statistics for Blind Source Separation in Post-Nonlinear Mixtures. Lecture Notes in Computer Science, 2018, , 193-203.	1.0	3
28	A Multi-Objective Approach for Post-Nonlinear Source Separation and Its Application to Ion-Selective Electrodes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 2067-2071.	2.2	2
29	Muticriteria Decision Making Based on Independent Component Analysis: A Preliminary Investigation Considering the TOPSIS Approach. Lecture Notes in Computer Science, 2018, , 568-577.	1.0	1
30	Toward Rank Disaggregation: An Approach Based on Linear Programming and Latent Variable Analysis. Lecture Notes in Computer Science, 2017, , 192-200.	1.0	2
31	Gaussian Processes for Source Separation in Overdetermined Bilinear Mixtures. Lecture Notes in Computer Science, 2017, , 300-309.	1.0	2
32	A Joint Second-Order Statistics and Density Matching-Based Approach for Separation of Post-Nonlinear Mixtures. Lecture Notes in Computer Science, 2017, , 499-508.	1.0	4
33	Z-Images. Lecture Notes in Computer Science, 2017, , 177-184.	1.0	0
34	On the Sparsity-Based Identification and Compensation of Hammerstein Systems. IEEE Signal Processing Letters, 2017, 24, 1363-1367.	2.1	5
35	A novel blind source separation method based on monotonic functions and its application to ion-selective electrode arrays. , 2017, , .		0
36	Extending NMF to blindly separate linear-quadratic mixtures of uncorrelated sources. , 2016, , .		2

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37	A necessary and sufficient condition for the blind extraction of the sparsest source in convolutive mixtures. , 2016, , .		2
38	A multi-objective approach for blind source extraction. , 2016, , .		4
39	Nonlinear blind source separation for chemical sensor arrays based on a polynomial representation. , 2016, , .		1
40	Blind source separation and feature extraction in concurrent control charts pattern recognition: Novel analyses and a comparison of different methods. Computers and Industrial Engineering, 2016, 92, 105-114.	3.4	22
41	Adaptive multiple subtraction: Unification and comparison of matching filters based on the ℓq-norm and statistical independence. Geophysics, 2016, 81, V43-V54.	1.4	10
42	A blind source separation method for chemical sensor arrays based on a second order mixing model. , 2015, , .		5
43	R&D and Innovation Project Selection: Can Optimization Methods be Adequate?. Procedia Computer Science, 2015, 55, 613-621.	1.2	7
44	An Overview of Blind Source Separation Methods for Linear-Quadratic and Post-nonlinear Mixtures. Lecture Notes in Computer Science, 2015, , 155-167.	1.0	33
45	A Sparsity-Based Method for Blind Compensation of a Memoryless Nonlinear Distortion: Application to Ion-Selective Electrodes. IEEE Sensors Journal, 2015, 15, 2054-2061.	2.4	10
46	Avaliação microbiológica de hortaliças minimamente processadas disponíveis no mercado e servidas em redes de fast-food e em unidades de alimentação e nutrição nas cidades de Limeira e Campinas, São Paulo, Brasil. Segurança Alimentar E Nutricional, 2015, 22, 633.	0.1	1
47	Seismic signal processing: Some recent advances. , 2014, , .		3
48	Blind source separation for overdetermined linear quadratic mixtures of bandlimited signals. , 2014, , .		1
49	Source Separation in Chemical Analysis : Recent achievements and perspectives. IEEE Signal Processing Magazine, 2014, 31, 135-146.	4.6	21
50	Application of Blind Source Separation Methods to Ion-Selective Electrode Arrays in Flow-Injection Analysis. IEEE Sensors Journal, 2014, 14, 2228-2229.	2.4	18
51	A Michigan-like immune-inspired framework for performing independent component analysis over Galois fields of prime order. Signal Processing, 2014, 96, 153-163.	2.1	4
52	An MSE-based theoretical limit to the performance of linear source extraction and equalization methods in undermodeled scenarios. , 2014, , .		0
53	An overview of signal processing issues in chemical sensing. , 2013, , .		3
54	Unsupervised Processing of Geophysical Signals: A Review of Some Key Aspects of Blind Deconvolution and Blind Source Separation. IEEE Signal Processing Magazine, 2012, 29, 27-35.	4.6	37

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55	Blind Compensation of Nonlinear Distortions: Application to Source Separation of Post-Nonlinear Mixtures. IEEE Transactions on Signal Processing, 2012, 60, 5832-5844.	3.2	20
56	Separation of Sparse Signals in Overdetermined Linear-Quadratic Mixtures. Lecture Notes in Computer Science, 2012, , 239-246.	1.0	10
57	An immune-inspired information-theoretic approach to the problem of ICA over a Galois field. , 2011, , .		13
58	Blind extraction of sparse components based on ℓ<inf>0</inf>-norm minimization. , 2011, , .		5
59	Multimodal optimization in the context of Sparse Component Analysis. , 2011, , .		1
60	Bayesian Source Separation of Linear and Linear-quadratic Mixtures Using Truncated Priors. Journal of Signal Processing Systems, 2011, 65, 311-323.	1.4	16
61	Blind Extraction of Smooth Signals Based on a Second-Order Frequency Identification Algorithm. IEEE Signal Processing Letters, 2010, 17, 79-82.	2.1	14
62	A Dataset for the Design of Smart Ion-Selective Electrode Arrays for Quantitative Analysis. IEEE Sensors Journal, 2010, 10, 1891-1892.	2.4	10
63	Blind Source Separation of Overdetermined Linear-Quadratic Mixtures. Lecture Notes in Computer Science, 2010, , 263-270.	1.0	7
64	Blind Extraction of Intermittent Sources. Lecture Notes in Computer Science, 2010, , 402-409.	1.0	1
65	A Bayesian Nonlinear Source Separation Method for Smart Ion-Selective Electrode Arrays. IEEE Sensors Journal, 2009, 9, 1763-1771.	2.4	44
66	Bayesian source separation of linear-quadratic and linear mixtures through a MCMC method. , 2009, , .		4
67	Ion-Selective Electrode Array Based on a Bayesian Nonlinear Source Separation Method. Lecture Notes in Computer Science, 2009, , 662-669.	1.0	4
68	A Mutual Information Minimization Approach for a Class of Nonlinear Recurrent Separating Systems. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , .	0.0	7
69	Blind Source Separation of a Class of Nonlinear Mixtures. Lecture Notes in Computer Science, 2007, , 41-48.	1.0	8
70	A Nonlinear Prediction Approach to the Blind Separation of Convolutive Mixtures. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.0	2
71	A Hybrid Unsupervised Clustering Algorithm for Channel Equalization. , 2006, , .		0